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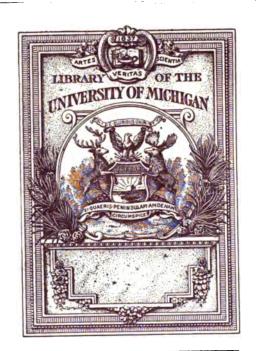
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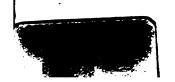
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GEOLOGICAL SURVEY OF NEW JERSEY

HENRY B. KÜMMBL, State Geologist

A REPORT

ON THE

Cretaceous Paleontology of New Jersey

BY

STUART WELLER

Based upon the Stratigraphic Studies

GEORGE N. KNAPP

VOLUME IV OF THE PALEONTOLOGY SERIES

PLATES

TRENTON, N. J.:

MacCrellish & Quigley, State Printers,
1907.

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Plates and Explanations.

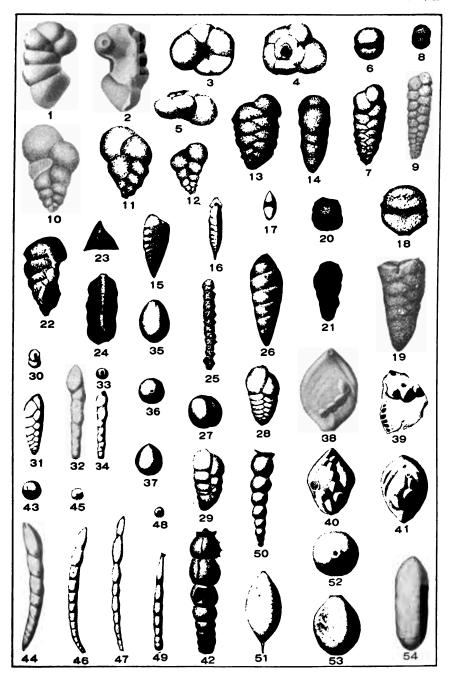
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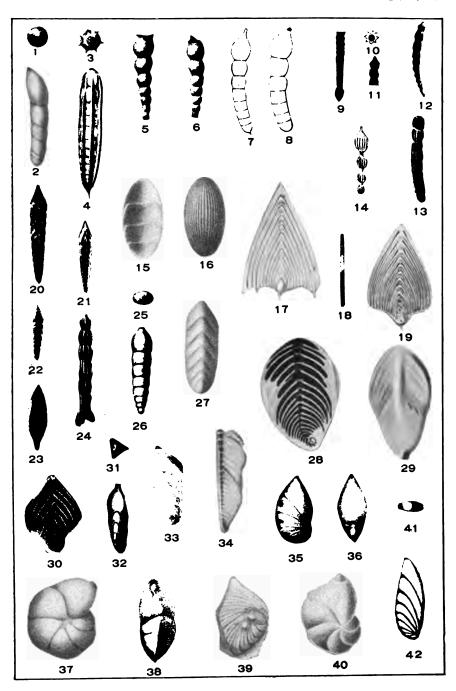
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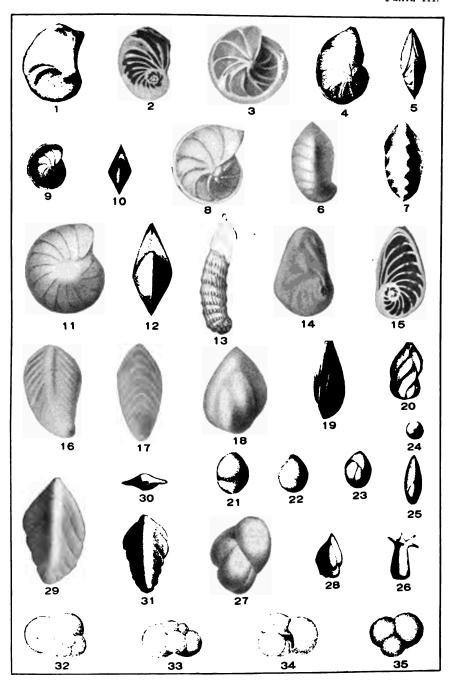
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EXPLANATION OF PLATE III.

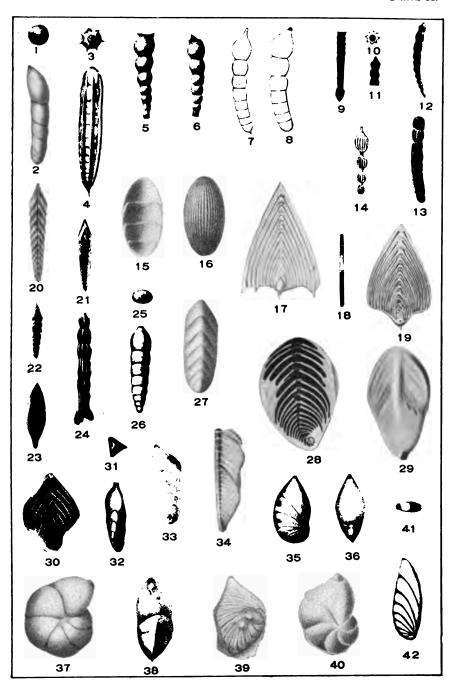
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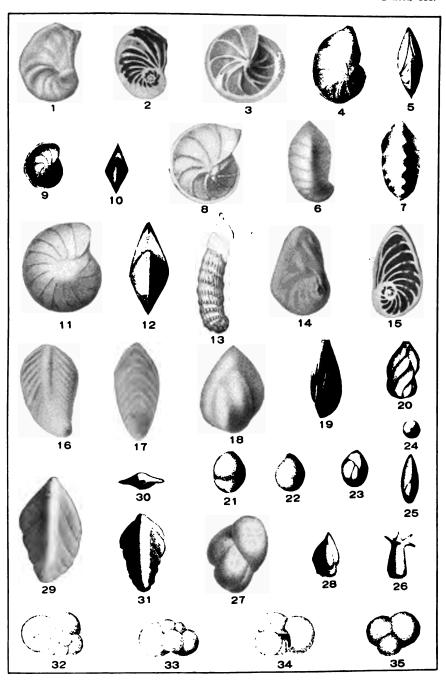
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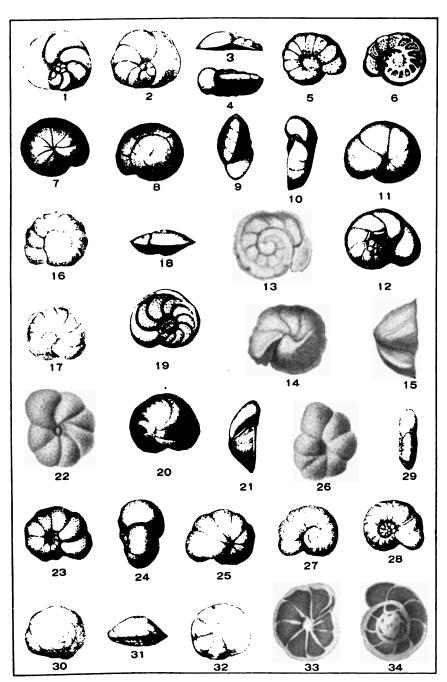
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Pulvinulina reticulata Reuss var. carinata Bagg,p. 265 33-34. Lower and upper views, (x26½). (After Bagg.)

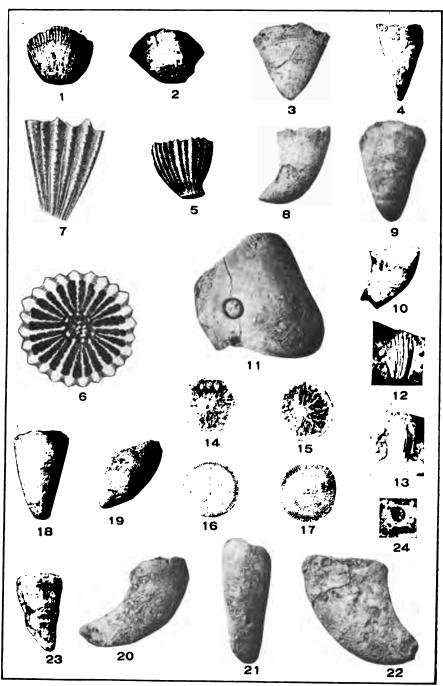


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EXPLANATION OF PLATE V.

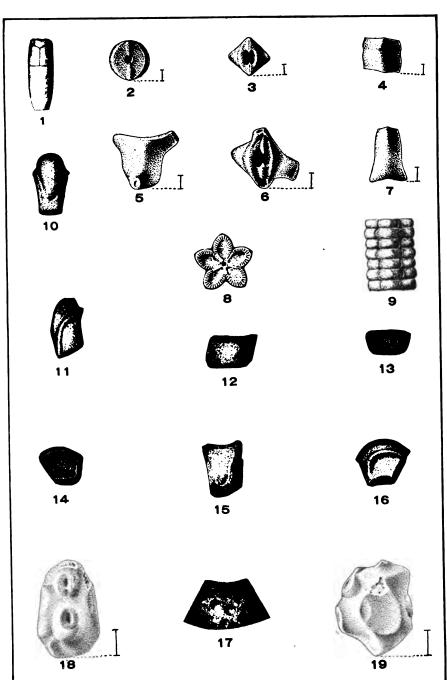
FLABELLUM MORTONI Vaughan,
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Undetermined Coral,



ANTHOZOA.

EXPLANATION OF PLATE VI.

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RHIZOCRINUS CYLINDRICUS n. sp
Pentacrinus bryani Gabb,
GONIASTER MAMMILATA Gabb,
Pentaceros asperulus Clark n. sp.,

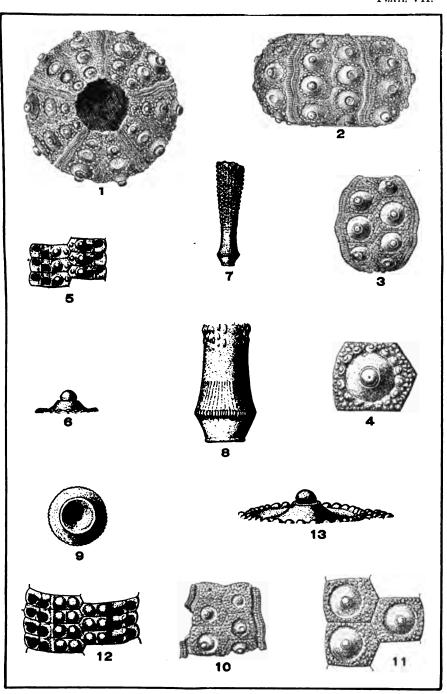


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EXPLANATION OF PLATE VII.

(Figures 3-13 after Clark.)

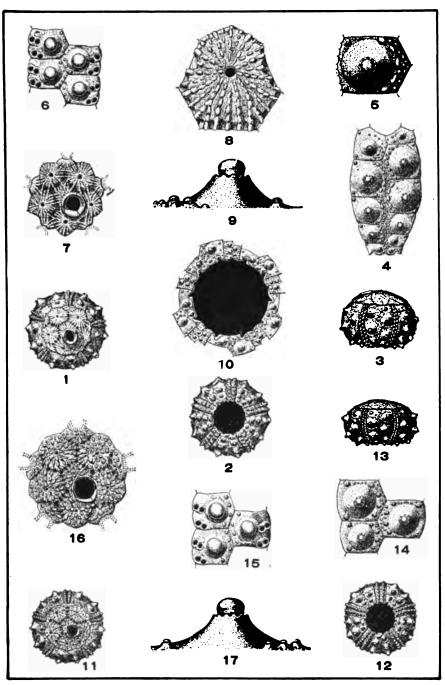
Cidaris splendens (Morton),p. 279
1-2. Two views of a nearly complete test. (Illustrations con-
tributed by Dr. W. B. Clark.)
3. Portion of a test.
4. Interambulacral plate (x2).
5. Ambulacral area, highly magnified.
6. Tubercle, enlarged.
7. Spine.
9. Base of spine much enlarged.
9. Articular surface of spine, much enlarged.
Vincentown limesand; Vincentown.
Cidaris walcotti Clark,p. 281
10. Portion of test, natural size.
11. Interambulacral plates, enlarged.
12. Ambulacral area, highly magnified.
13. Tubercle enlarged.
Vincentown limesand; Vincentown.



ECHINODERMATA.

EXPLANATION OF PLATE VIII.

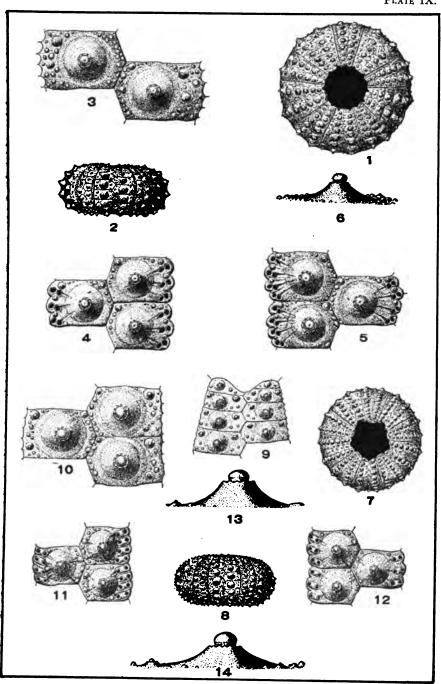
Salenia tumidula Clark,p. 28	2
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4. Interambulacral area, (x4).	
5. Single plate of interambulacral area, highly magnified.	
6. Ambulacral area, highly magnified.	
7. Apical disk, enlarged.	
8. Genital plate, highly magnified.	
9. Tubercle much enlarged.	
10. Oral opening enlarged.	
Vincentown limesand; Vincentown.	
Salenia bellula Clark,p. 28	3
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(x2).	
14. Three interambulacral plates, highly magnified.	
-4	
15. Three ambulacral plates, highly magnified.	
15. Three ambulacral plates, highly magnified.	
15. Three ambulacral plates, highly magnified.16. Apical disk, enlarged.	



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EXPLANATION OF PLATE IX.

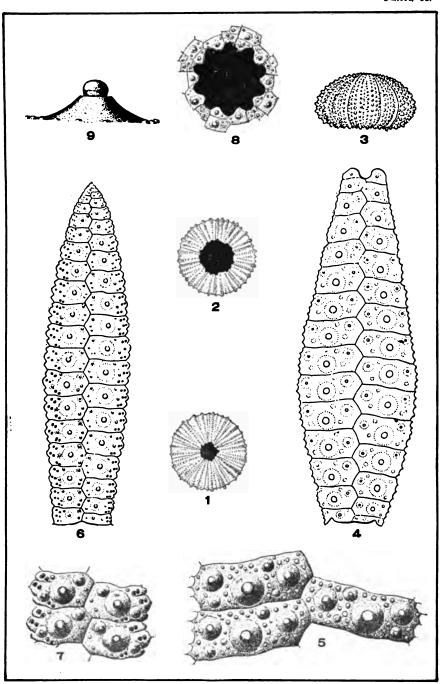
	EMA DIATRETUM (Morton),p. 285 Ventral and lateral views of a complete individual, (Figure
	1 enlarged).
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4-5.	Portions of the ambulacral area highly magnified.
· 6.	Tubercle, much enlarged.
	Vincentown limesand; Vincentown.
PSEUDODIAD	EMA SPECIOSUM Clark,p. 286
7–8 .	Dorsal and lateral views of a complete individual.
9.	Upper portion of an interambulacral area, enlarged.
IO. '	Three interambulacral plates, highly magnified.
I I-I2.	Portions of the ambulacral area, highly magnified.
13. '	Tubercle of ambulacral area.
14. '	Tubercle of interambulacral area.
	Vincentown limesand; Vincentown.



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EXPLANATION OF PLATE X.

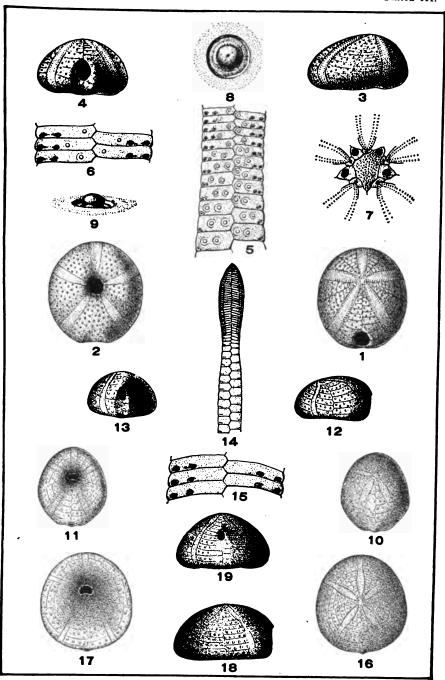
Psammeci	HINUS CINGULATUS Clark,p. 288
1-3.	Dorsal, ventral and lateral views of a complete individual.
4.	Interambulacral area, enlarged.
5.	Three interambulacral plates highly magnified.
6.	Ambulacral area, enlarged.
7.	Four ambulacral plates, highly magnified.
8.	Oral opening, enlarged.
9.	Tubercle, enlarged.
	Vincentorun limesand.



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EXPLANATION OF PLATE XI.

Trematopygus cruciferus (Morton),
 Lower portion of the petaloid region of the right postero- lateral ambulacrum.
 Much enlarged view of several of the same ambulacral plates. Apical disk, enlarged.
8-9. Two views of a tubercle, from above and from the side. Vincentown limesand; Timber Creek.
CATOPYGUS OVIFORMIS Conrad,
CATOPYGUS PUSILLUS Clark,p. 292 16-19. Dorsal, ventral, lateral and posterior views of a complete individual. Merchantville clay-marl.



ECHINODERMATA.

EXPLANATION FRANCE XXX

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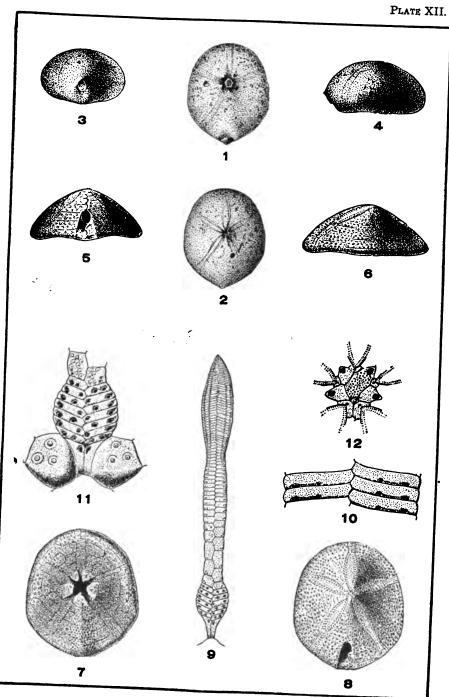
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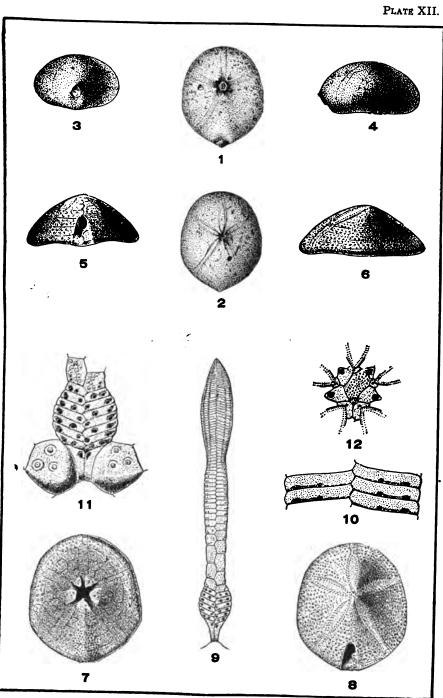
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ECHINODERMATA. 3* Pal

EXPLANATION OF PLATE XII.

	(Illustrations contributed by Dr. W. B. Clark.) Ventral, dorsal, posterior and lateral views of a complete individual. Navesink marl; bluff east of Atlantic Highlands.
Cassidulu	S AEQUOREUS Morton,p. 293 (All figures after Clark.)
5–8.	Posterior, lateral, ventral and dorsal views of the type specimen from Alabama.
9.	Anterior ambulacrum enlarged.
10.	Several ambulacral plates from the petaloid region, much enlarged.
II.	Several ambulacral plates from the oral region.
12.	Apical disk, much enlarged.
	Vincentown limesand.

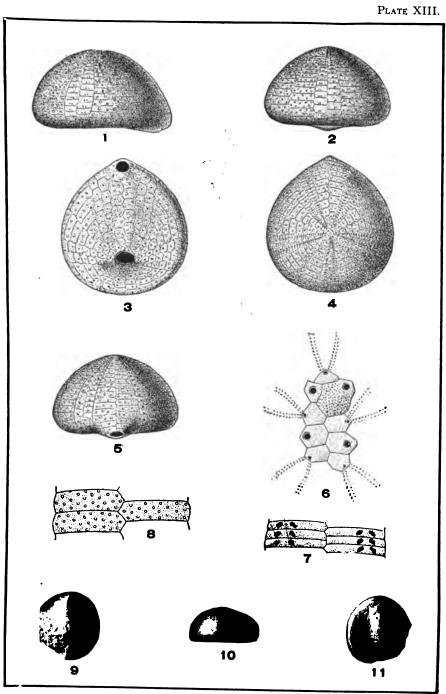


ECHINODERMATA.

3* Pal

EXPLANATION OF PLATE XIII.

Ananchytes ovalis Clark,p. 295
1-5. Lateral, anterior, ventral, dorsal and posterior views of a
complete individual.
6. Apical disk, enlarged.
7. Several ambulacral plates, much enlarged.
8. Several interambulacral plates, much enlarged.
Vincentown limesand; Vincentown.
Cardiaster smocki Clark n. sp.,p. 298
(Illustrations contributed by Dr. W. B. Clark.)
9-11. Dorsal, lateral and ventral views, of the type specimen.
Merchantville clay-marl.



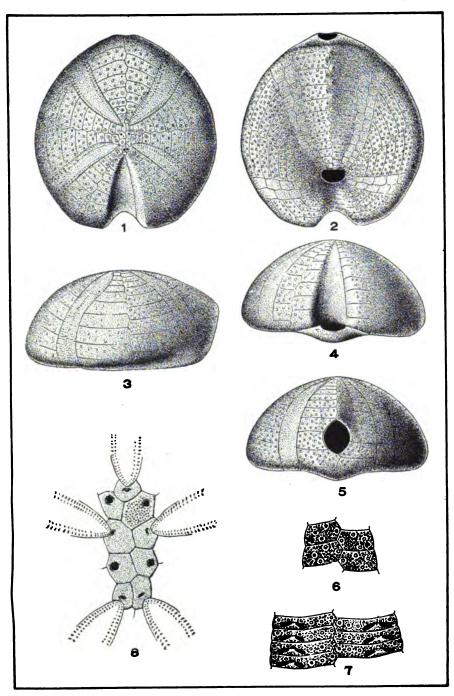
ECHINODERMATA.

EXPLANATION OF PLATE XIV.

(All figures after Clark.)

CARDIASTE	r cinctus (Morton),p. 296
1-5.	Dorsal, ventral, lateral, anterior and posterior views of a
	complete individual.
6.	Basal portion of an ambulacral area, much enlarged.
7.	Central portion of the petaloid region of an ambulacral area, much enlarged.
8.	Apical disk, enlarged.

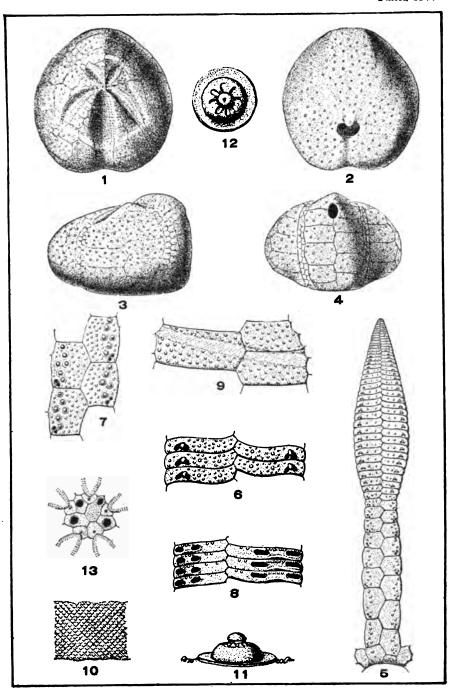
Vincentown limesand.



ECHINODERMATA.

EXPLANATION OF PLATE XV.

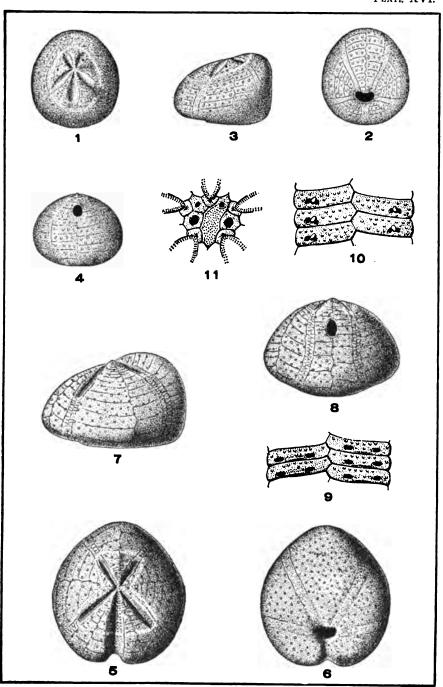
	ter parastatus (Morton),p. 29
I-	 Dorsal, ventral, lateral and posterior views of a complete individual.
	5. Anterior ambulacrum, enlarged.
6-	 Portions of the petaloid and basal regions of the anterior ambulacrum, much enlarged.
	8. Several plates from the petaloid region of the right anterolateral ambulaerum, much enlarged.
	9. Three interambulacral plates with fasiole, enlarged.
1	o. Portion of fasciole, highly magnified.
11-1	2. Two views of a tubercle, from the side and from above.
1	3. Apical disk, enlarged.
	Vincentown limesand.



ECHINODERMATA.

EXPLANATION OF PLATE XVI.

Hemiaster stella (Morton),
Hemiaster ungula (Morton),p. 301
5-8. Dorsal, ventral, lateral and posterior views of a complete individual.
Portion of the petaloid region of the right antero-lateral ambulacrum, much enlarged.
 Portion of the petaloid region of the anterior ambulacrum, much enlarged.
11. Apical disk, enlarged.
Vincentown limesand.

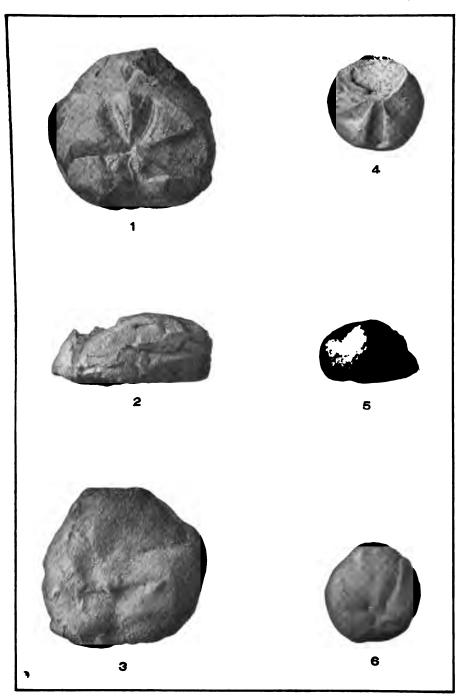


ECHINODERMATA.

EXPLANATION OF PLATE XVII.

(All illustrations contributed by Dr. W. B. Clark.)

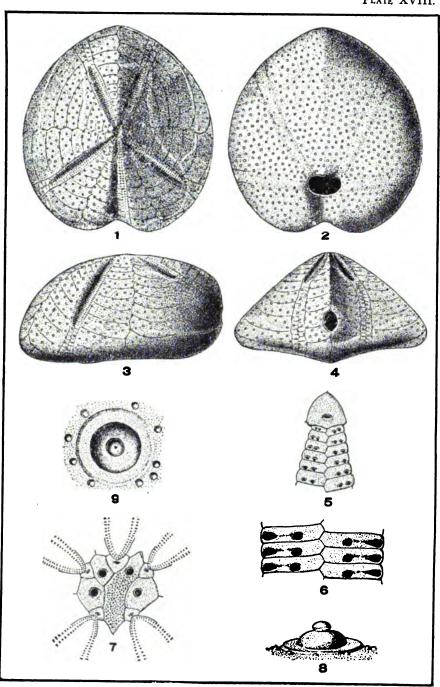
Hemiaster kümmeli Clark n. sp.,	303
Hemiaster welleri Clark n. sp.,	302



ECHINODERMATA.

EXPLANATION OF PLATE XVIII.

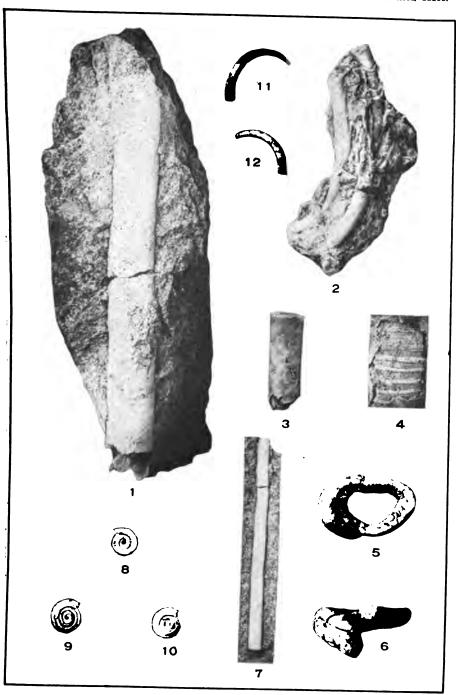
Linthia tumidula Clark,p. 302
1-4. Dorsal, ventral, lateral and posterior views of a complete individual.
5. Upper portion of the anterior ambulacrum, enlarged.
Several plates from the petaloid region of the left postero- lateral ambulacrum, highly magnified.
7. Apical disk, enlarged.
8-9. Two views of a tubercle, from the side and from above.
Vincentown limesand.



ECHINODERMATA.

EXPLANATION OF PLATE XIX.

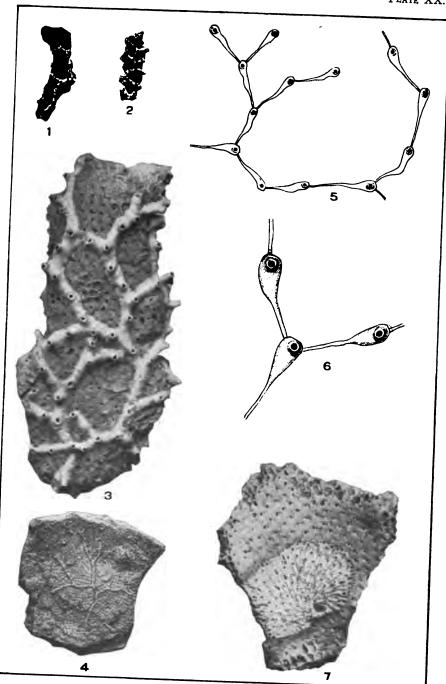
WORM BURROW,
Serpula whitfield n. sp.,
Hamulus ?? sp.,
Serpula circularis n. sp.,
HAMULUS LINEATUS n. sp.,
Serpula rotula (Morton),
Hamulus falcatus (Conrad),p. 309 11-12. Views of two different individuals illustrated by Whitfield. Navesink marl.



VERMES.

EXPLANATION OF PLATE XX.

	RA REGULARIS Gabb,p. 313 Two colonies growing upon Onychocella digitata (Mort.), (x2).
3.	A similar colony, (x8).
· ·	Vincentown limesand; Vincentown, (154).
STOM ATOPO	RA KUMMELI n. sp. Ulrich and Bassler,p. 314
4.	The type specimen, (x2).
	Vincentown limesand, Vincentown, (154).
STOM ATOPOI	RA TEMNICHORDA Ulrich and Bassler n. sp.,p. 314
5.	Drawing of the type specimen, (x24).
6.	The same, (x40).
	Vincentown limesand; Vincentown, (154).
BERENICEA	AMERICANA Ulrich and Bassler n. sp.,p. 315
7. '	The type specimen, (x8).
•	Vincentoren limasand : Vincentoren (151)

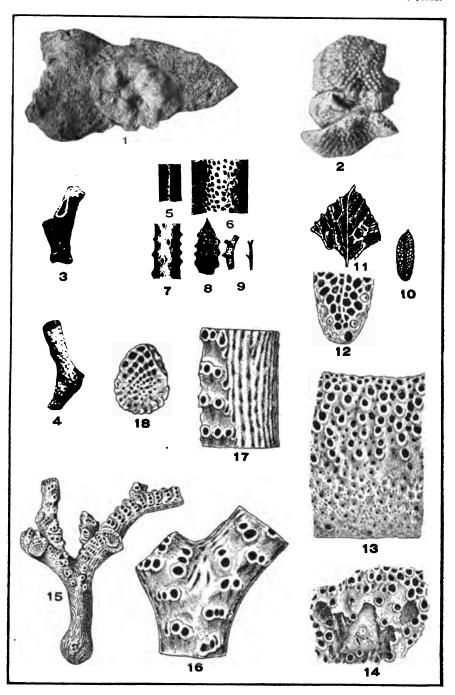


BRYOZOA.

4* Pai

EXPLANATION OF PLATE XXI.

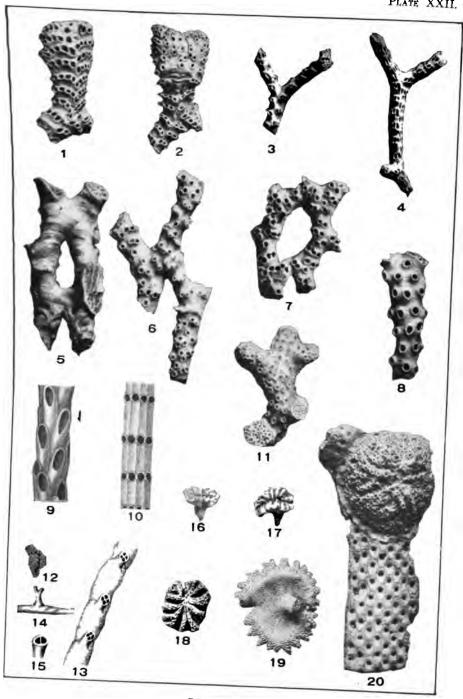
DISCOSPARSA VARIANS Ulrich,
DIASTOPORA LINEATA Gabb and Horn,
RETICULIPORA DICHOTOMA Gabb and Horn,
CRISINA STRIATOPORA Ulrich,



BRYOZOA.

EXPLANATION OF PLATE XXII.

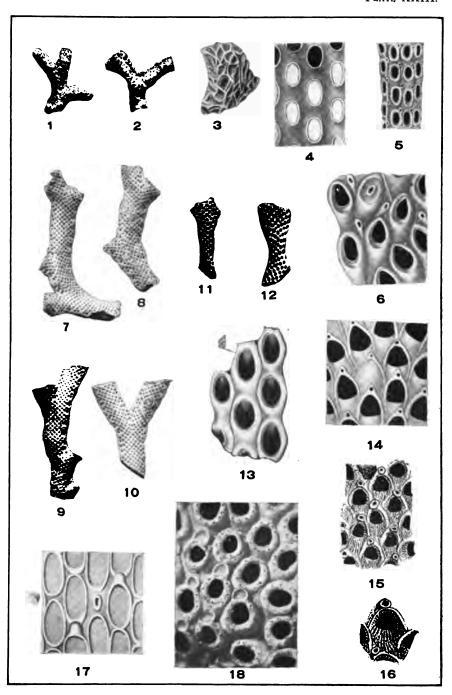
BISIDMONEA GABBIANA Ulrich and Bassler n. sp.,p. 1-2. Views of two fragments, (x5). Vincentown limesand; Vincentown, (154).	320
IDMONEA ABBOTTI Gabb and Horn,p. 3-4. Views of two fragments, (x8). Vincentown limesand; Vincentown, (154).	321
FILISPARSA CONTORTILIS (Lonsdale),p. 5. View of the reverse side of a fragment, (x2). 6-7. Views of the celluliferous sides of two fragments, (x8). Vincentown limesand, Vincentown, (154).	322
FILISPARSA BIFURCATA Ulrich and Bassler n. sp.,p. 8. View of the celluliferous side of the type specimen, (x8). Vincentown limesand; Vincentown, (154).	322
ENTALOPHORA CONRADI Gabb and Horn,p. 9. View of the type specimen, much enlarged, (after Gabb and Horn). Vincentown limesand.	323
Spiropora calamus Gabb and Horn,p. 10. View of the type specimen, much enlarged, (after Gabb and Horn). Vincentown limesand.	324
CLAUSA AMERICANA Gabb and Horn,p. 11. View of a fragment of a colony, (x8). Vincentown limesand; Vincentown, (154).	325
FILIFASCIGERA MEGAERA (Lonsdale),p. 12. View of a specimen natural size, seen encrusting another bryozoan. 13. View of a fragment much enlarged. 14-15. Two enlarged views showing details of structure. (All figures after Gabb and Horn.) Vincentown limesand.	325
DISCOCYTIS ECCENTRICA Ulrich and Bassler n. sp.,p. 16-17. Lateral views of two colonies, (x2). 18. Upper view of a colony, (x4). 19. Under view of a colony, (x4). Vincentown limesand; Vincentown, (154).	326
LICHENOPORA PAPYRACEA (d'Orbigny),p. 20. View of a complete zoarium attached to Onychocella digitata (Mort.), (x8). Vincentorum limesend Vincentorum (x54)	327



BRYOZOA.

EXPLANATION OF PLATE XXIII.

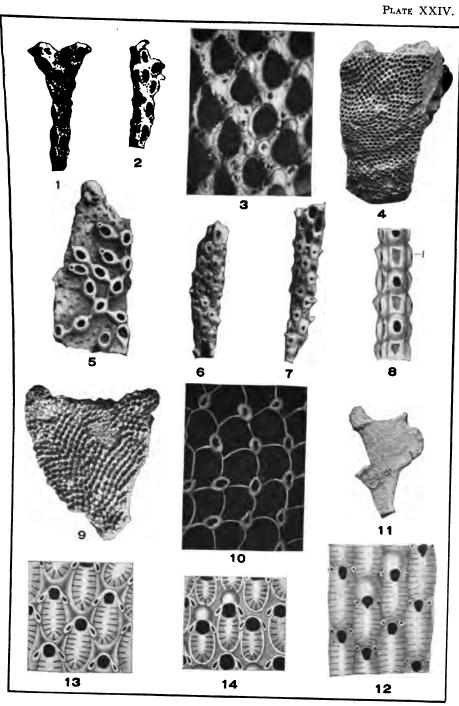
HETEROPORA PARVICELLA (Gabb and Horn),
RETELEA OVALIS Gabb and Horn,
FLUSTRELLA? CAPISTRATA Gabb and Horn,
Onychocella digitata (Morton),
BIFLUSTRA TORTA Gabb and Horn,
BIFLUSTRA DISJUNCTA Gabb and Horn,
Amphiblestrum heteropora (Gabb and Horn),
MEMBRANIPORA PLEBIA Gabb and Horn,p. 334 17. Surface of zoarium much enlarged. (After Gabb and Horn.) Vincentown limesand.
MEMBRANIPORA ANNULOIDEA Ulrich and Bassler n. sp.,



BRYOZOA.

EXPLANATION OF PLATE XXIV.

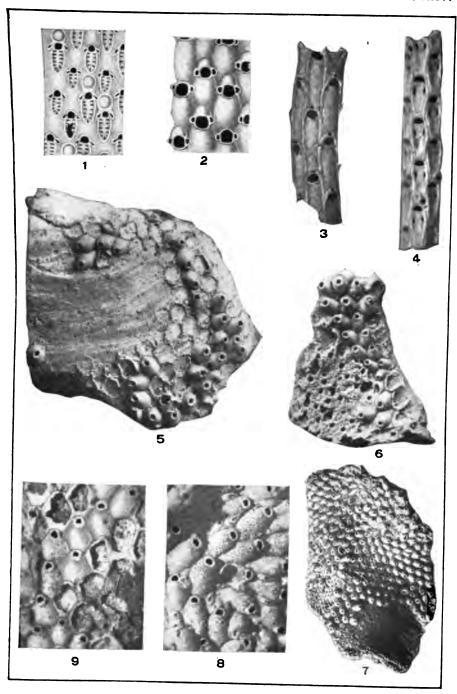
Membranipora nematoporoides Ulrich and Bassler n. sp.,p. 1-2. Fragments of two zoaria, (x8). Vincentown limesand; Vincentown, (154).	336
Membranipora jerseyensis Ulrich and Bassler n. sp.,p. 3. Surface of zoarium, (x24). Vincentown limesand; Vincentown, (154).	336
Membranipora perampla Gabb and Horn,p. 4. Surface of zoarium, (x2). Vincentown limesand; Vincentown, (154).	337
Pyripora irregularis Gabb and Horn,p. 5. View of a zoarium attached to another bryozoan, (x8). Vincentown limesand; Vincentown, (154).	337
PLANICELLARIA OCULATA (D'Orbigny),p. 6-7. Views of two fragments of zoaria, (x8). Vincentown limesand; Vincentown, (154).	338
PLANICELLARIA CYLINDRICA (Gabb and Horn),p. 8. View of a fragment of a zoarium, much enlarged. (After Gabb and Horn.) Vincentown limesand.	339
ESCHARINELLA ALTIMURALIS Ulrich and Bassler n. sp.,	339
CRIBRILINA SAGENA (Morton),	340
Membraniporella abbotti (Gabb and Horn),p. 13. Surface of zoarium, much enlarged. 14. Surface of zoarium described as Reptescharipora marginata by Gabb and Horn, much enlarged. (Both figures after Gabb and Horn.) Vincentary limesand	342



BRYOZOA.

EXPLANATION OF PLATE XXV.

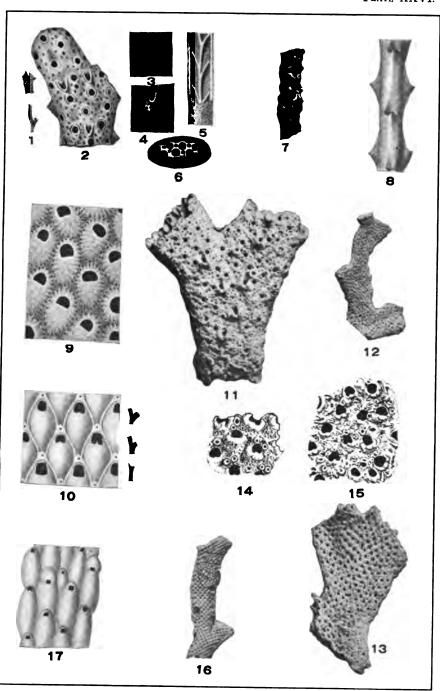
MEMBRANIPORELLA DISTANS (Gabb and Horn),p. 1. Surface of zoarium, much enlarged. (After Gabb and Horn.) Vincentown limesand.	34-4
Reptescharellina prolifera Gabb and Horn,p. 2. Much enlarged surface of zoarium. (After Gabb and Horn.) Vincentown limesand.	346
Micropora pulchra Ulrich and Bassler n. sp.,p. 3. Fragment of zoarium, (x24). Vincentown limesand; Vincentown, (154).	347
Micropora cylindracea Ulrich and Bassler n. sp.,p. 4. Fragment of a zoarium, (x24). Vincentown limesand; Vincentown, (154).	347
Monoporella exserta Ulrich and Bassler n. sp.,	349
Microporella sparsipora Ulrich and Bassler n. sp.,	348
MICROPORA? VINCENTOWNENSIS Ulrich and Bassler n. sp.,p. 9. Surface of zoarium, (x24). Vincentown limesand: Vincentown, (151).	348



BRYOZOA.

EXPLANATION OF PLATE XXVI.

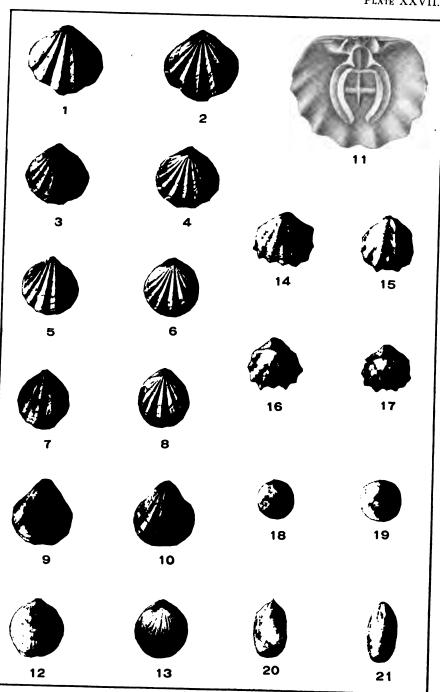
PORINA LABIATA (Gabb and Horn),
PORINA QUADRANGULARIS Gabb and Horn,
LEPRALIA ASPERA (Gabb and Horn),p. 352 9. Much enlarged surface of zoarium. (After Gabb and Horn.) Vincentown limesand.
MUCRONELLA MURALIS (Gabb and Horn),
PORINA CORONATA (Reuss)?p. 351 11. Fragment of zoarium, (x6). Vincentown limesand; Vincentown, (154).
MUCRONELLA TYPICA (Gabb and Horn),p. 353 12. Fragment of zoarium, (x2). 13. Fragment of zoarium, (x4). Vincentown limesand; Vincentown, (154).
MUCRONELLA ASPERA Ulrich,
MUCRONELLA PUMILA (Gabb and Horn),



BRYOZOA.

EXPLANATION OF PLATE XXVII.

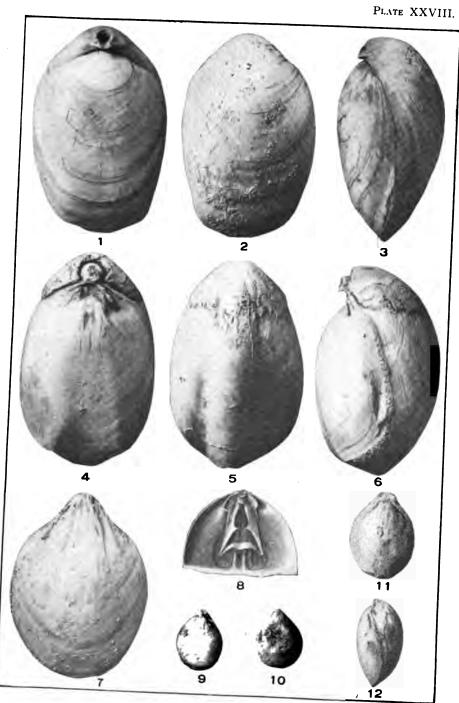
TEREBRATELLA PLICATA (Say),p. I-IO. Two views each of five different individuals, showing something of the range of variation of the species. Navesink marl; near Crawfords Corner, (1267). II. The brachidium. (After Whitfield.)	364
Terebratella vanuxemi (Lyell and Forbes),p.	366
12-13. Two views of a very perfect individual.	
Navesink marl; near Holmdel, (128°).	
CISTELLA BEECHERI Clark,p. 14–17. Views of four different individuals.	361
Vincentown limesand; Vincentown, (154).	
PLATIDA CRETACEA n. sp.,p.	363
18-19. Views of the type specimens	
Vincentown limesand; Vincentown, (154).	
LINGULA SUBSPATULA Hall and Meek,p.	356
20-21. Views of two individuals.	
Woodbury clay; Lorillard, (102).	



BRACHIOPODA.

EXPLANATION OF PLATE XXVIII.

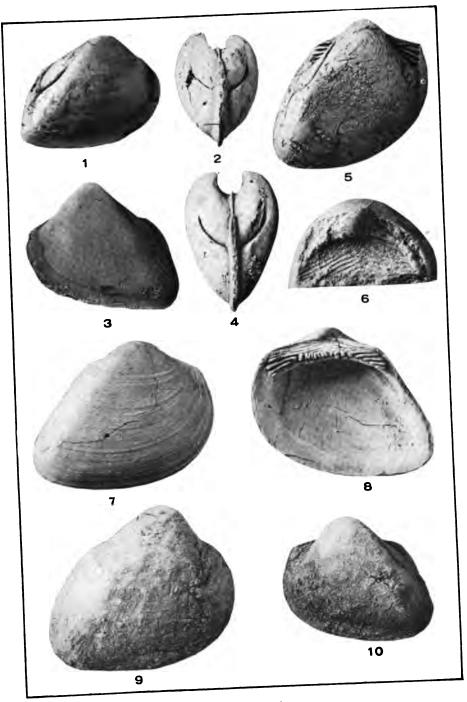
Terebratula Harlani Morton,p. 357
1-3. Three views of a very perfect specimen of the typical form.
Vincentown formation; near New Egypt.
4-6. Three views of a specimen belonging to the variety fragiles.
Same locality.
7. Internal cast of pedicle valve.
Vincentown sand; near Deal, (122).
8. The brachidium. (After Whitfield.)
Terebratulina atlantica (Morton),p. 360
9-10. Two views of a nearly perfect internal cast.
11-22. Two views of a similar but somewhat larger individual.
Manasquan marl; Farmingdale, (138).



BRACHIOPODA.

5* Pal,

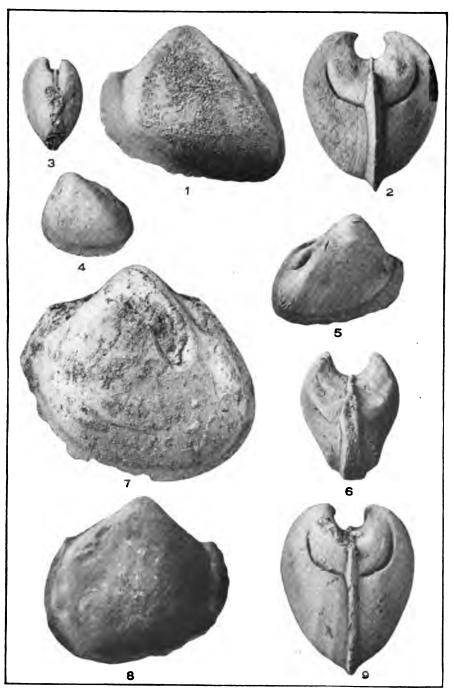
EXPLANATION OF PLATE XXXI.



PELECYPODA.

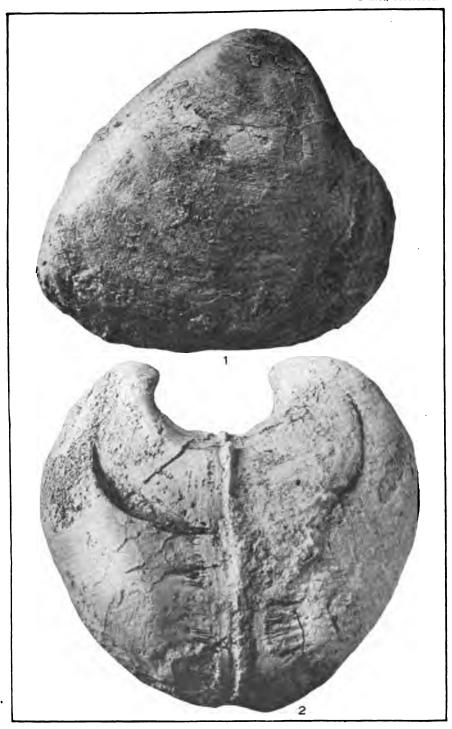
EXPLANATION OF PLATE XXXII.

CUCULLAEA TIPPANA Con.,	94
CUCULLAEA COMPRESSIROSTRA Whitf.,	99
Cucullaea vulgaris Morton,p. 3 5-6. Views of the right side and the posterior end of a very perfect internal cast. Scwell marl; near Hornerstown, (152).	97
CUCULLAEA ANTROSA Morton,	91



PELECYPODA.

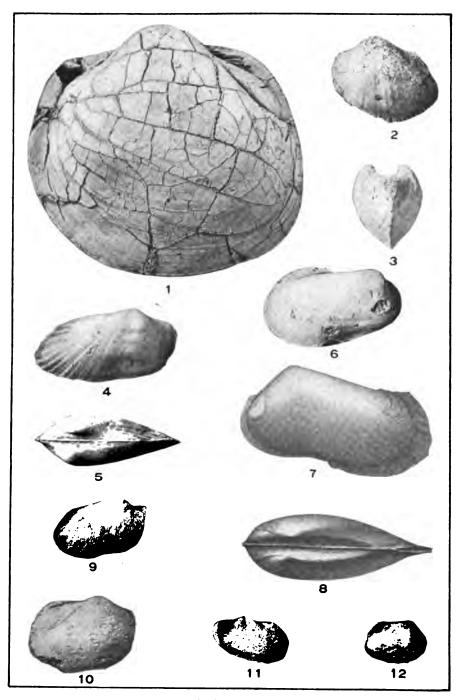
EXPLANATION OF PLATE XXXIII.



PELECYPODA.

EXPLANATION OF PLATE XXXIV.

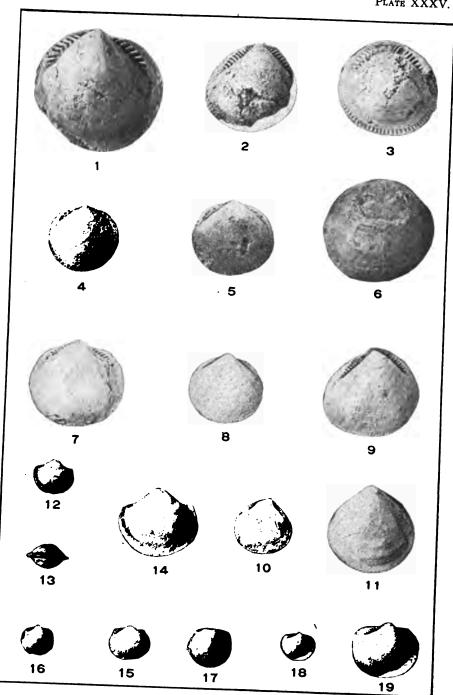
CUCULLAEA WOODBURYENSIS n. sp.,)3
ARCA QUINDECEMRADIATA Gabb,	0
Arca rostellata Morton,p. 40 4-5. Views of the right side and dorsal margin of a very perfect internal cast figured by Whitfield. Navesink marl; Holmdel.	. 8
ARCA UNIOPSIS Conrad,p. 40 6. An internal cast of the right valve. Navesink marl; Crosswicks Creek, (149). 7-8. Left and dorsal views of a nearly complete internal cast. (After Whitfield.)	7
ARCA OBESA (Whitfield),p. 40 9. The internal cast of a right valve. Merchantville clay-marl; Lenola, (163).	19
Arca sp. 10-12. Views of three internal casts. Vincentown formation; near Deal, (122).	



PELECYPODA.

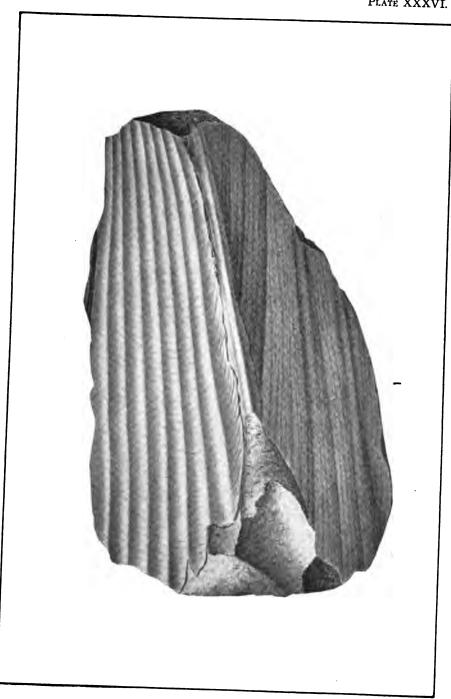
EXPLANATION OF PLATE XXXV.

Axinea subaustralis d'Orbigny,p. 414
I. A large internal cast of the left valve.
Navesink marl; Crosswicks Creek, (149).
2-3. Two internal casts of medium size with very strong teeth and
crenulations of the margin.
Tinton Beds; Beers Hill cut, (1295).
4-5. Two internal casts.
Merchantville clay-marl; Lenola, (163).
6. Right side of a nearly complete individual preserving the
shell, illustrated by Whitfield.
Navesink marl; Crosswicks Creck.
7-8. Two internal casts.
Vincentown formation; near Deal, (122).
Axinea compressa n. sp.,p. 417
9. The type specimen, an internal cast of a right valve.
Red Bank sand; near Middletown, (112).
Axinea microdentus n. sp.,
IO-II. Two internal casts.
Wenonah sand; near Crawfords Corner, (1263).
Axinea congesta (Conrad),p. 418
12-13. Left and dorsal views of a nearly perfect internal cast.
14. Left side of the same, (x2).
Cliffwood Clay; near Matawan, (185).
15. Internal cast of a right valve showing the hinge.
Cliffwood clay; Cliffwood Point, (105).
16-18. Views of the internal casts of three single valves.
19. View of same specimen shown in fig. 18, (x2).
Woodbury clay; Lorillard, (102).



PELECYPODA. 6* Pal,

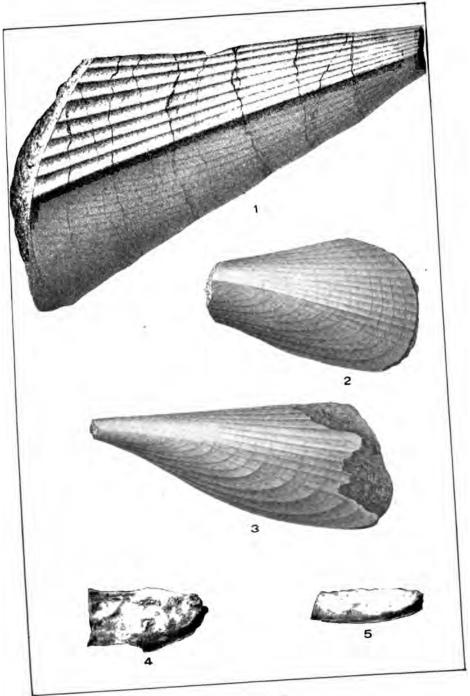
EXPLANATION OF PLATE XXXVI.



PELECYPODA.

EXPLANATION OF PLATE XXXVII.

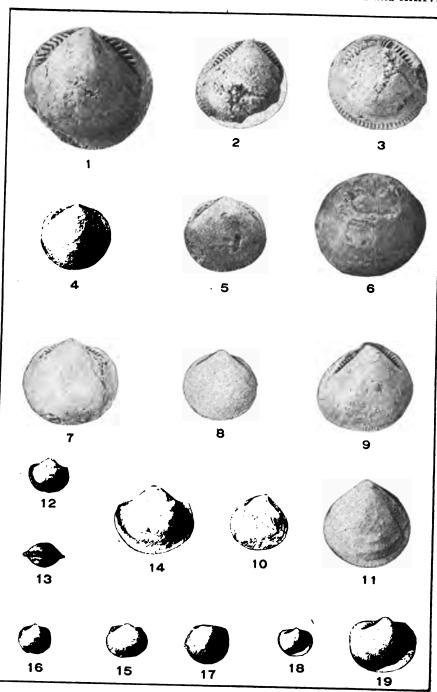
PINNA LAQUEATA Conrad,p. 2 1. Lateral view of a right valve, incomplete anteriorly. (After Whitfield.)	119
PINNA ROSTRIFORMIS Morton,p. 2-3. Lateral views of two imperfect left valves. (After Whitfield.)	12 0
Vincentown limesand; Timber Creek.	
GERVILLIOPSIS ENSIFORMIS (Conrad),p. 4. View of an incomplete internal cast from the right side. Navesink marl; near Freehold, (133). 5. A similar view of a smaller specimen.	42 I
Navesink marl; Mullica Hill, (169).	



PELECYPODA.

EXPLANATION OF PLATE XXXV.

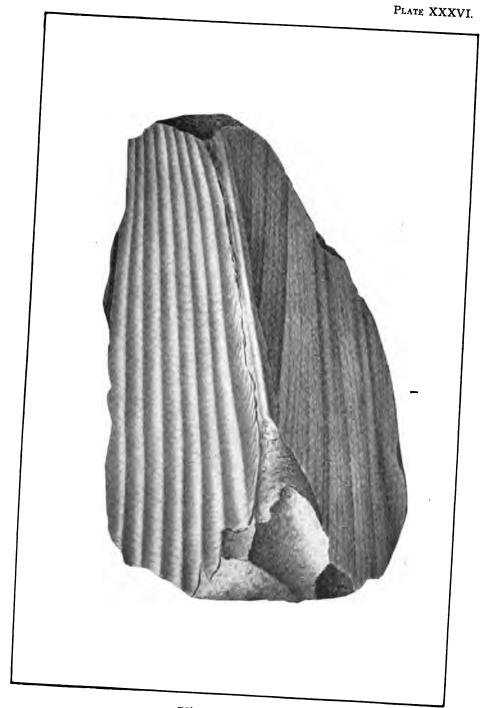
Axinea subaustralis d'Orbigny,p. 414
I. A large internal cast of the left valve.
Navesink marl; Crosswicks Creek, (149).
2-3. Two internal casts of medium size with very strong teeth and
crenulations of the margin.
Tinton Beds; Beers Hill eut, (1298).
4-5. Two internal casts.
Merchantville clay-marl; Lenola, (163).
6. Right side of a nearly complete individual preserving the
shell, illustrated by Whitfield.
Navesink marl; Crosswicks Creek.
7-8. Two internal casts.
Vincentown formation; near Deal, (122).
Axinea compressa n. sp.,
9. The type specimen, an internal cast of a right valve.
Red Bank sand; near Middletown, (112).
Axinea microdentus 11. sp.,p. 416
10-11. Two internal casts.
Wenonah sand; near Crawfords Corner, (1263).
Axinea congesta (Conrad),p. 418
12-13. Left and dorsal views of a nearly perfect internal cast.
14. Left side of the same, (x2).
Cliffwood Clay; near Matawan, (185).
15. Internal cast of a right valve showing the hinge.
Cliffwood clay; Cliffwood Point, (105).
16-18. Views of the internal casts of three single valves.
19. View of same specimen shown in fig. 18, (x2).
Woodbury clay; Lorillard, (102).



PELECYPODA.

6* Pal,

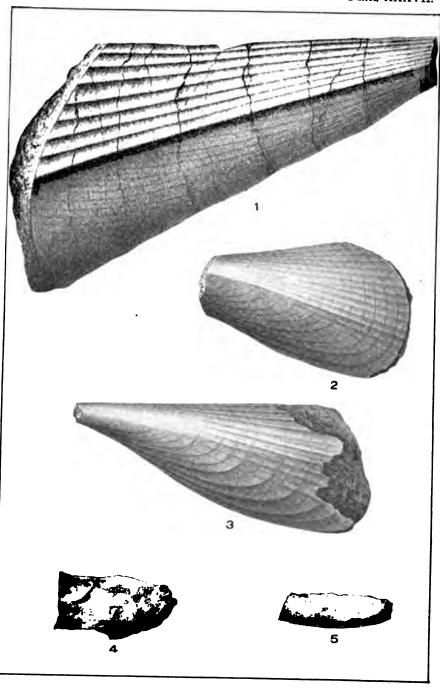
EXPLANATION OF PLATE XXXVI.



PELECYPODA.

EXPLANATION OF PLATE XXXVII.

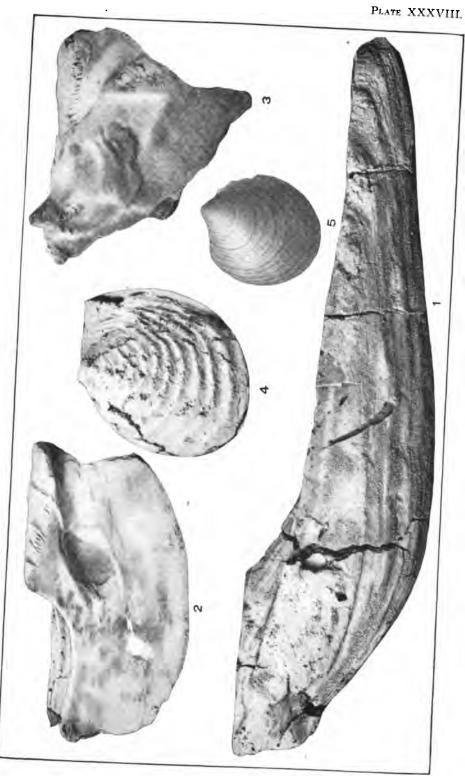
PINNA LAQUEATA Conrad,	1 19
PINNA ROSTRIFORMIS Morton,p. a	42 0
2-3. Lateral views of two imperfect left valves. (After Whit-	
field.)	
Vincentown limesand; Timber Creek.	
GERVILLIOPSIS ENSIFORMIS (Conrad),p.	42 I
4. View of an incomplete internal cast from the right side.	
Navesink marl; near Freehold, (133).	
5. A similar view of a smaller specimen.	
Navesink marl; Mullica Hill, (169).	



PELECYPODA.

EXPLANATION OF PLATE XXXVIII.

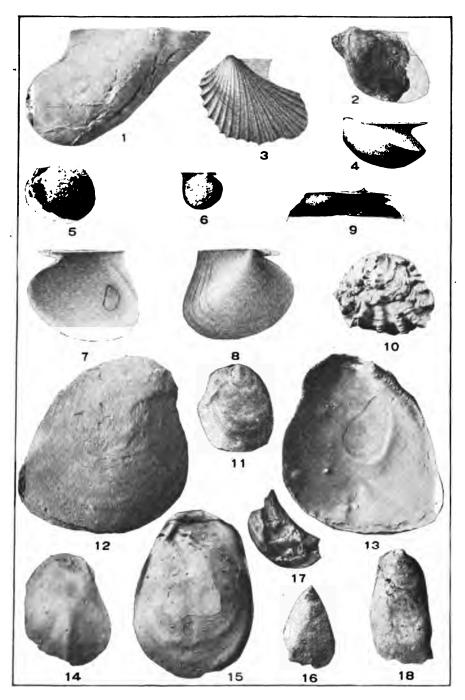
Gervili	JOPSIS ENSIFORMIS (Conrad),p. 421
	1. A nearly complete left valve.
	2. Internal view of a less complete valve.
	Marshalltown clay-marl; Woodbury.
	3. View of a large, imperfect internal cast.
	Marshalltown clay-marl?; Woodbury?
Inocer	AMUS PROOBLIQUA Whitfield,p. 428
	4. The type specimen.
	Navesink marl; Holmdel.
Inocer	AMUS ? PEROVALIS Conrad.
	5. View of the right side of an internal cast. The type speci- men. (After Whitfield.)



PELECYPODA.

EXPLANATION OF PLATE XLII.

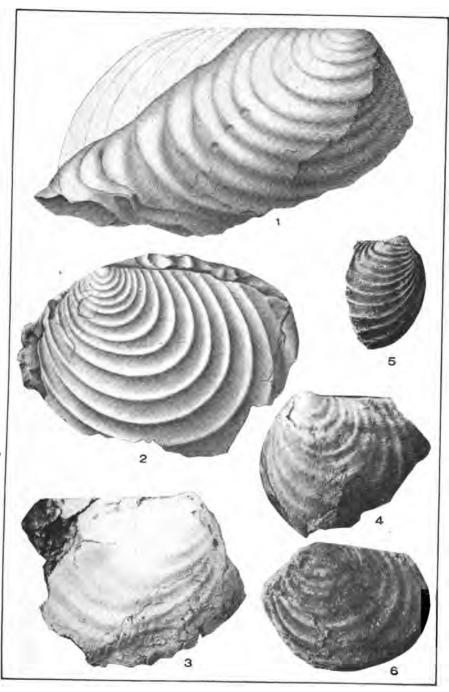
PTERIA PETROSA (Conrad),
PTERIA LARIPES (Morton),p. 431 3. View of a left valve. (After Whitfield.)
PTERIA NAVICULA Whitfield,
Meleagrinella abrupta (Conrad),
OSTREA PANDA Morton,p. 437 10. View of a nearly perfect lower valve. Marshalltown clay-marl; near Swedesboro, (180).
OSTREA CRETACEA Morton,
OSTREA CRENULIMARGINATA Gabb,p. 441 12-13. External and internal views of a complete single valve, illustrated by Whitfield. Navesink marl; Marlboro.
OSTREA sp. 14. View of an internal cast of a lower valve. Vincentown sand; near Deal, (122).
OSTREA SUBSPATULATA Forbes,
OSTREA PLUMOSA Morton,



PELECYPODA.

EXPLANATION OF PLATE XL.

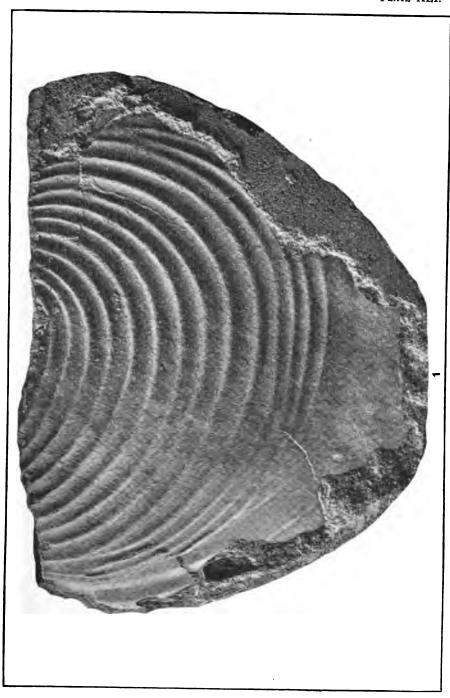
INOCERAMUS PROXIMUS Tuomey,p. 42		
1-2. Views of two incomplete specimens. (After Whitfield.)		
Merchantville clay-marl; Keyport.		
3. An incomplete specimen illustrated by Whitfield.		
Wenonah sand; Holmdel.		
4. View of an incomplete left valve.		
Mcrchantville clay-marl; near Jamesburg, (141).		
5. View of an incomplete right valve preserving the shell,		
Marshalltown clay-marl; near Swedesboro, (177).		
Inoceramus sp.		
6. View of an incomplete left valve.		
Navesink marl; Crosswicks Creek, (1474).		



PELECYPODA.

EXPLANATION OF PLATE XLI.

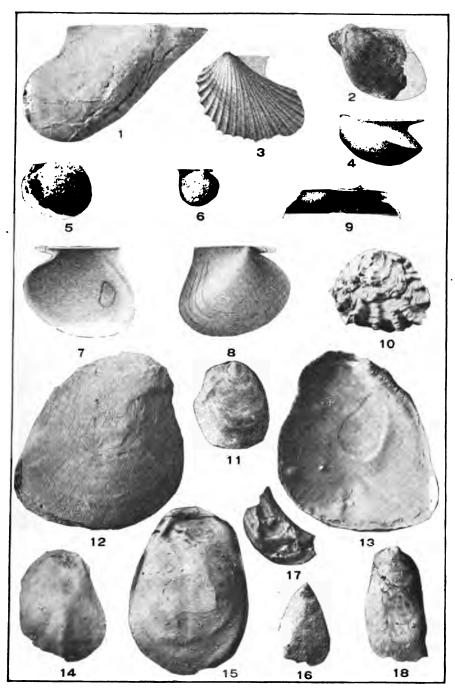
INCCERAMUS	PROXIMUS Tuomey,p.	424
1. A	very large, incomplete specimen.	
	Merchantville clay-marl: Lenola. (163).	



PELECYPODA.

EXPLANATION OF PLATE XLII.

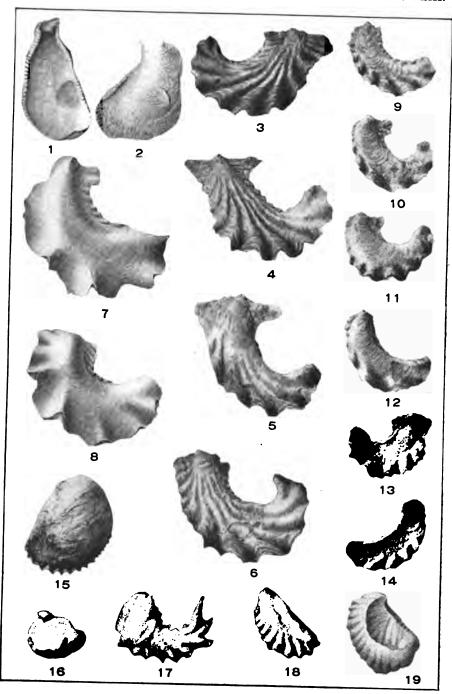
PTERIA	PETROSA (Conrad),
PTERIA I	LARIPES (Morton),p. 431 3. View of a left valve. (After Whitfield.)
	NAVICULA Whitfield,
5- 7-	8. Internal and external views of a nearly complete right valve, (x2). (After Whitfield.) 9. The hinge of a left valve, (x2). (After Whitfield.) Navesink marl; Freehold.
	panda Morton,p. 437 o. View of a nearly perfect lower valve. Marshalltown clay-marl; near Swedesboro, (180).
	I. A nearly complete internal cast of the lower valve. Cliffwood clay; Cliffwood Point (105).
	CRENULIMARGINATA Gabb,p. 441 3. External and internal views of a complete single valve, illustrated by Whitfield. Navesink marl; Marlboro.
OSTREA I	sp. 4. View of an internal cast of a lower valve. Vincentown sand; near Deal, (122).
	SUBSPATULATA Forbes,
1(1)	PLUMOSA Morton,



PELECYPODA.

EXPLANATION OF PLATE XLIII.

OSTREA DENTICULIFERA Conrad,	36
OSTREA FALCATA Morton,p. 4	14
3–6. Views of four nearly perfect single valves. Marshalltown clay-marl; near Swedesboro, (177).	
OSTREA NASUTA Mortonp. 4-7-8. Views of two nearly complete single valves. (After Whitfield.) Navesink marl.	17
Ostrea mesenterica Morton,p. 4- 9–14. Views of six nearly perfect single valves. Navesink marl; near Holmdel, (127 ⁸).	ţ6
Ostrea monmouthensis n. sp.,	μ2
OSTREA CONGESTA Conrad,p. 43 16. View of an internal cast of the attached valve. Cliffwood clay; Cliffwood Point, (105).	15
OSTREA TECTICOSTA Gabb,p. 44 17–18. Views of two casts of single valves referred to this species. Wenonah sand; near Marlboro, (130).	3
to Exterior view of the type specimen (After Whitfield)	

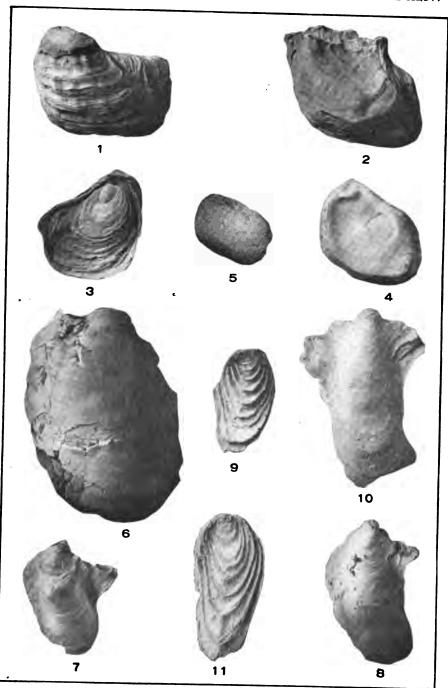


PELECYPODA.

7* Pal

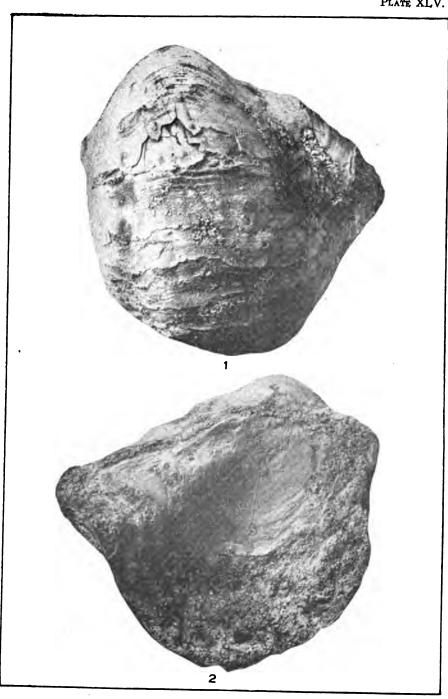
EXPLANATION OF PLATE XLIV.

OSTREA BRYANA Gabb,p. 448
I-2. Views of two lower valves.
3. View of the upper side of a complete individual.
4. View of the interior of an upper valve.
Manasquan marl; near Vincentown, (159).
5. An internal cast.
Manasquan marl; Farmingdale, (138).
GRYPHAEOSTREA VOMER (Morton),p. 455
6-9. Views of three lower valves of different forms, and one upper
valve.
Marshalltown clay-marl; near Swedesboro, (177).
10-11. Views of a lower and an upper valve.
Hornerstorun marl near Woodstorum (181)



PELECYPODA.

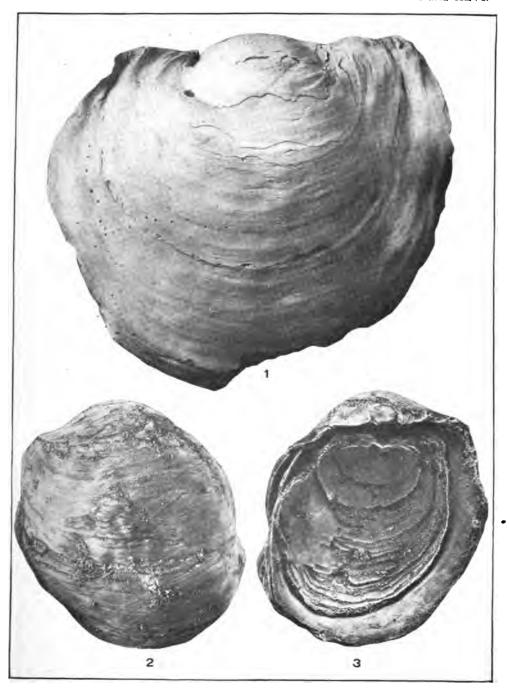
EXPLANATION OF PLATE XLV.



PELECYPODA.

EXPLANATION OF PLATE XLVI.

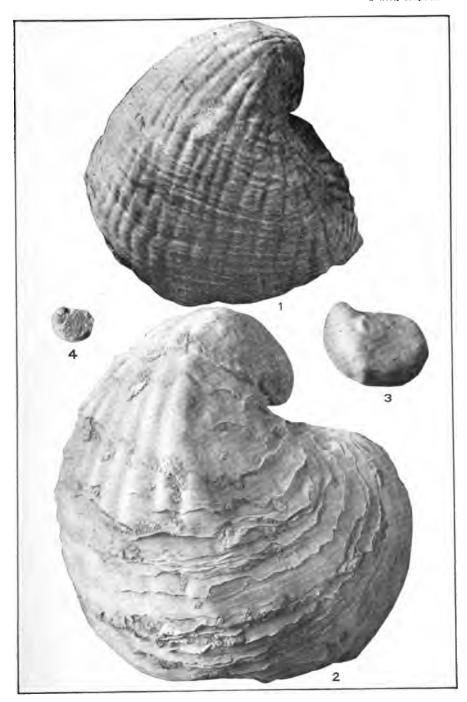
GRYPHAEA	MUTABILIS Morton,p.	452
I.	External view of a nearly complete valve.	
Marshalltown clay-marl; near Swedesboro, (18	Marshalltown clay-marl; near Swedesboro, (180).	
	Two views of a nearly complete individual retaining both valves.	453
	Hornerstoren marl: near Woodstoren (181)	



PELECYPODA.

EXPLANATION OF PLATE XLVII.

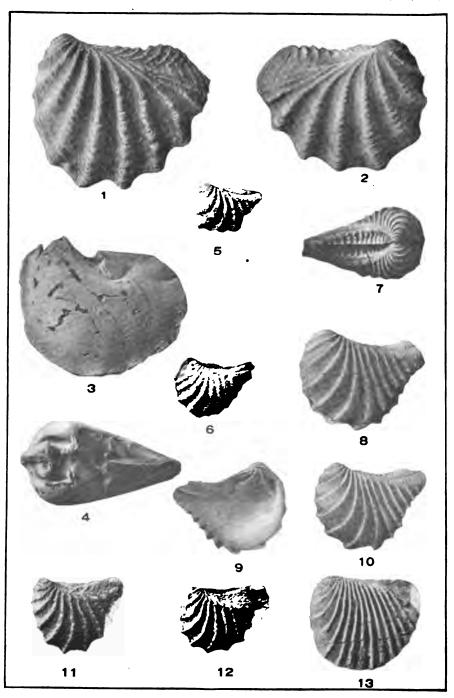
Exogyr	a costata Say,p. 456
	I. View of a nearly perfect valve.
· · · · · · · · · · · · · · · · · · ·	Navesink marl; Crosswicks Creek, (1462).
Exogyr	a ponderosa Roemer,p. 458
2. View of a nearly perfect va	2. View of a nearly perfect valve.
	Marshalltown clay-marl; near Swedesboro, (177).
Exogyr	A sp.,p. 460
	3. View of an internal cast of a lower valve.
	Merchantville clay-marl; Lenola, (163).
Ostrea	CONGESTA Con.,p. 435
	4. View of the internal cast of an attached valve.
	Cliffwood clay; Cliffwood Point, (105).



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EXPLANATION OF PLATE XLVIII.

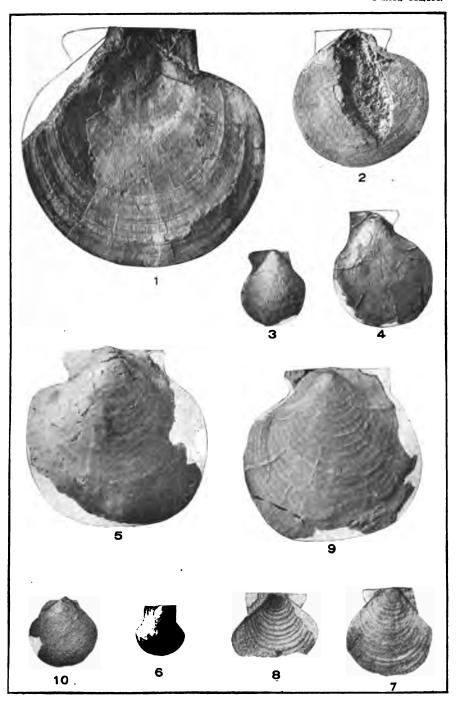
TRIGONIA THORACICA Morton,	•
TRIGONIA EUFAULENSIS Gabb,	2
(Coll. U. S. Nat. Mus.) TRIGONIA K_MMELI n. sp.,	5
TRIGONIA CERULIA Whitfield,	ţ



PELECYPODA.

EXPLANATION OF PLATE XLIX.

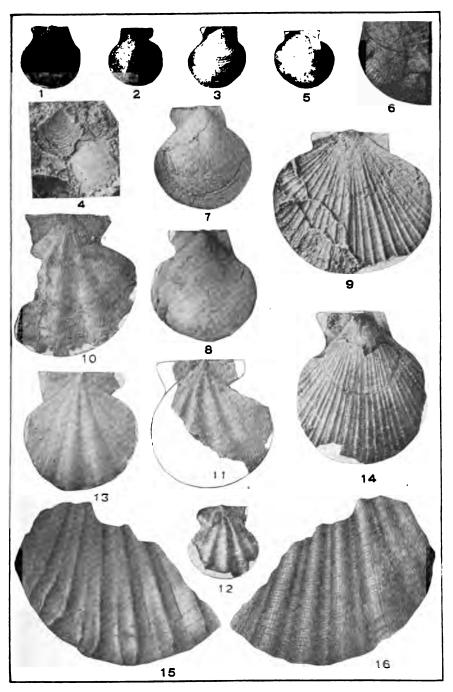
Pecten argulensis Conrad,p. 472
1-2. Views of two nearly circular individuals illustrated by
Whitfield.
Navesink marl; Freehold.
3-4. Views of two individual valves of normal form and size.
Internal casts.
Woodbury clay; Lorillard, (102).
Pecten burlintonensis Gabb,p. 470
5. A large internal cast of a single valve.
 A small single valve of the form called P. perlamellosus by Whitfield.
Merchantville clay-marl; near Matawan, (101).
7-8. A cast of the interior and the natural impression of the exterior of a single valve.
Merchantville clay-marl; Lenola, (163).
9. A large internal cast of a single valve.
Woodbury clay; Lorillard, (102).
Pecten sp.
10. View of an internal cast.
Managaran mart: Earmingdala (128)



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EXPLANATION OF PLATE L.

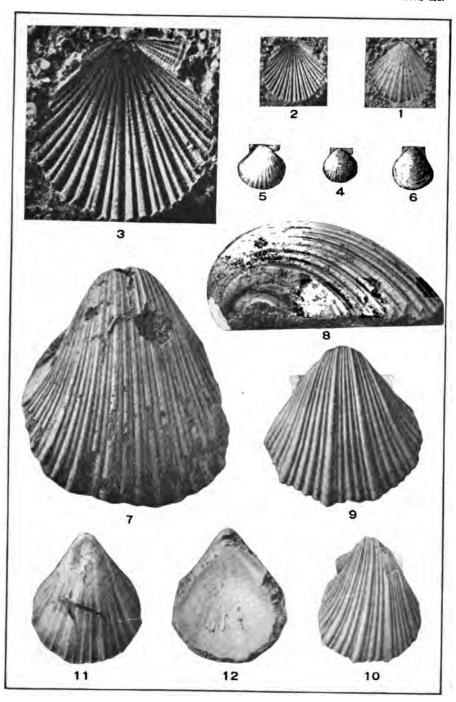
Pecten conradi (Whitfield),
PECTEN PARVUS (Whitfield),
Pecten cliffwoodensis n. sp.,
PECTEN TENUITESTUS Gabb,p. 467 9. View of a squeeze taken from a natural mould of the exterior. Navesink marl; near Walnford, (149).
Pecten Quinquenaria Conrad,
PECTEN WHITFIELDI n. sp.,
Photen craticulus Morton,



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EXPLANATION OF PLATE LI.

Pecten venustus Morton,
PECTEN SIMPLICIUS Conrad,p. 480 6. An internal cast of a single valve. Tinton beds; Beers Hill Cut, (1298).
NEITHEA QUINQUECOSTATA (Sowerby),p. 481 7-8. Two views of a large internal cast of the convex valve. Illustrated by Whitfield. Wenonah sand.
9-10. Two convex valves preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
11-12. Upper and lower views of a nearly complete internal cast.
Merchantville clay-marl; Lenola, (163).

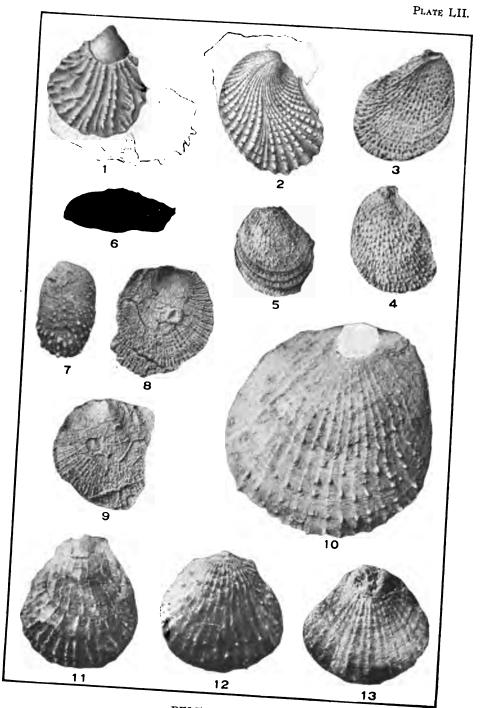


PELECYPODA.

8* Pal

EXPLANATION OF PLATE LII.

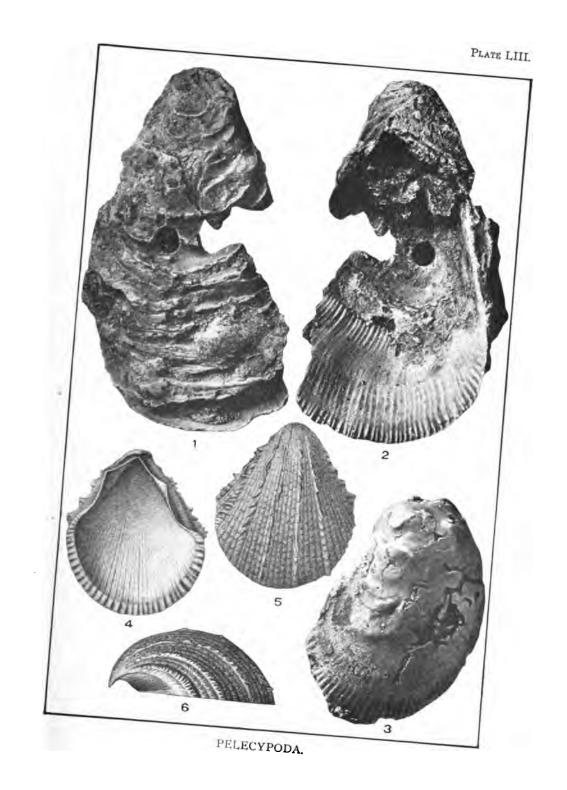
PLICATULA URTICOSA (Morton),p. 1-2. Views of two individuals. (After Whitfield.) Navesink marl; Freehold.	484
PLICATULA MULLICAENSIS n. sp.,	485
Liroscapha squamosa Conrad,p. 6-7. Two views of the type specimen, (x2). Woodbury clay; Haddonfield, (183).	489
PLICATULA WOODBURYENSIS n. sp.,	485
PARANOMIA SCABRA (Morton),	500
Marshalltown clay-marl; near Swedesboro, (177).	



PELECYPODA.

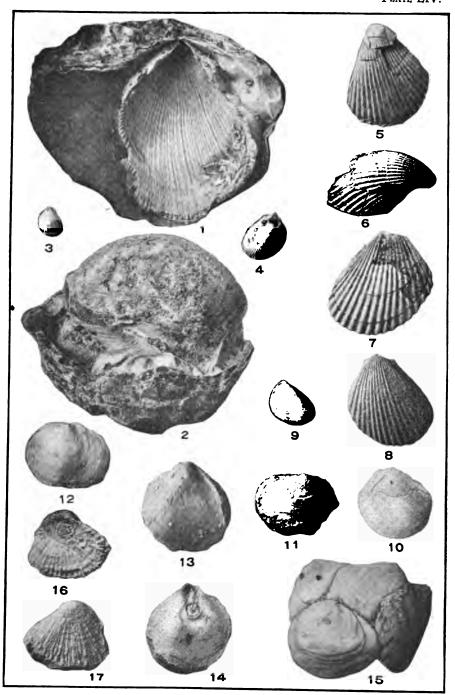
EXPLANATION OF PLATE LIII.

Spondylus gregalis (Morton),p. 4	86
1-2. Internal and external views of a large lower valve illustrated	
by Whitfield.	
3. View of an internal cast illustrated by Whitfield.	
Navesink marl; Crosswicks Creek.?	
DIANCHORA ECHINATA (Morton),p. 4	87
4-6. Three views of the type specimen, a nearly perfect lower	
valve. (After Whitfield).	
Naziesink marl	



EXPLANATION OF PLATE LIV.

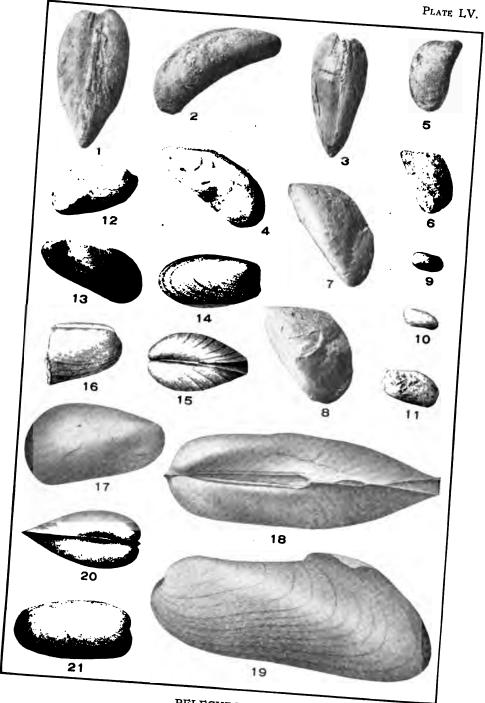
DIANCHORA ECHINATA (Morton),
LIMA RETICULATA (Lyell and Forbes),
Lima Lorillardensis n. sp.,
LIMA PELAGICA (Morton),
LIMA WHITFIELDI n. sp.,
LIMA MONMOUTHENSIS (Whitfield),p. 494 9. View of the type specimen, illustrated by Whitfield as Nucula monmouthensis. Wenonah sand; Marlboro.
PLAGIOSTOMA ERECTA (Whitfield),
Anomia argentaria Morton,
Anomia radiata n. sp.,



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EXPLANATION OF PLATE LV.

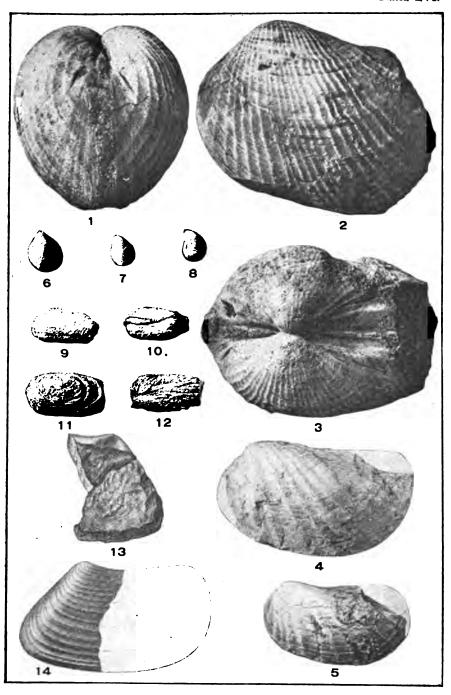
MYTILUS SMOCKI n. sp.,
3-4. Two views of another complete internal cast. Navesink marl; near Crawfords Corner, (1267).
MYTILUS OBLIVIUS Whitfield,
Modiola monmouthensis n. sp.,
Modiola wenonah n. sp.,
Modiola Julia Lea,
Modiola johnsoni Whitfield,
Modiola ovata Gabb,p. 508 16. Lateral view of a specimen imperfect posteriorly. (After Whitfield.) 17. View of the right side of the type specimen. (After Whitfield.) Vincentown formation; Timber Creek.
Modiola burlingtonensis Whitfield,
Modiola subinflata Whitfield,



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EXPLANATION OF PLATE LVI.

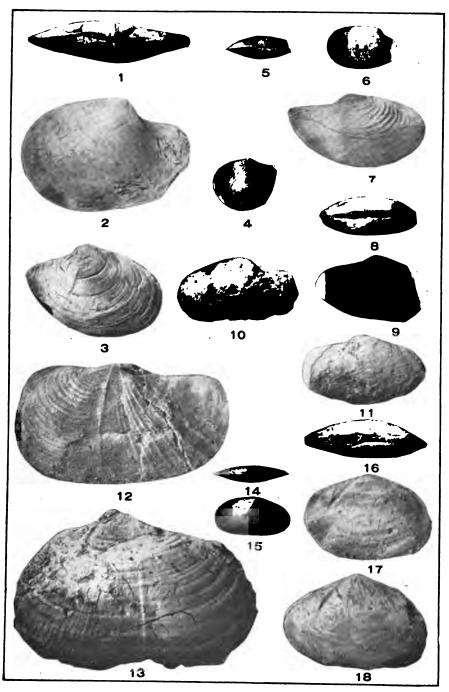
PHOLADOMYA OCCIDENTALIS Morton,p. 1-3. Anterior, lateral and cardinal views of a nearly complete internal cast. Merchantville clay-marl; Lenola, (163).	513
PHOLADOMYA ROEMERI Whitfield,	515
CRENELLA ELEGANTULA Meek and Hayden,p. 6. Lateral view of an internal cast. Tinton beds; Beers Hill Cut, (1295).	511
CRENELLA SERICA Conrad,p. 7-8. Lateral views of two single valves, (x2). Marshalltown clay-marl; near Swedesboro, (177).	510
LITHOPHAGA RIPLEYANA (Gabb),p. 9-10. Lateral and cardinal views of a rather smooth example. Navesink marl; Mullica Hill, (169). 11-12. Lateral and cardinal views of a rougher example. Navesink marl; near Walnford, (148).	512
CERCOMYA PECULARIS (Conrad),p. 13-14. Two views of the type specimen. (After Whitfield.) Navesink marl; Crosswicks Creek.	518



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EXPLANATION OF PLATE LVII.

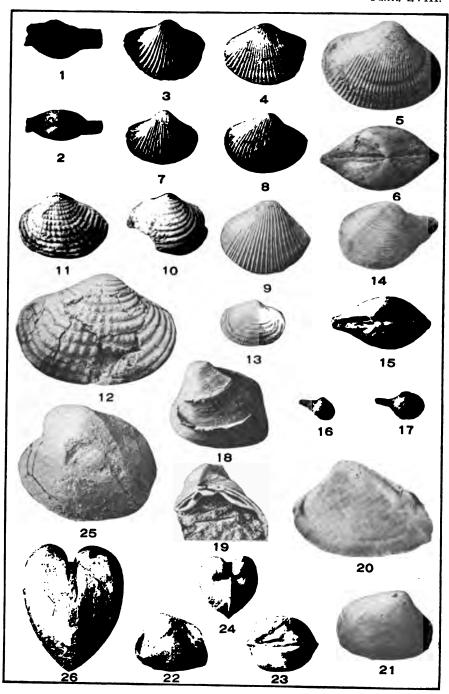
Anatina Jerseyensis n. sp.,	516
Anatina cliffwoodensis n. sp.,	517
Anatina jamesburgensis n. sp.,p. 7. Lateral view of the type specimen. The lower half restored. *Merchantville clay-marl; near Jamesburg, (139).	517
Periplomya elliptica (Gabb),p. 8-9. Cardinal and lateral views of a specimen illustrated by Whitfield. Locality unknown. 10. Lateral view of the type of P. truncata Whitf. Manasquan marl; New Egypt. 11. Lateral view of the type of Veleda nasuta Whitf. Manasquan marl; New Egypt.	522
Anatimya anteradiata Conrad,p. 12. Lateral view of a nearly complete cast of a single valve. Wenonah sand; near Marlboro, (130).	519
Anatimya lata (Whitfield),p. 13. Lateral view of the type of the species. Wenonah sand; near Marlboro.	521
CORIMYA? sp. 14-15. Cardinal and lateral views of a very perfect internal cast. Merchantville clay-marl; Lenola, (163).	
CORIMYA TENUIS Whitfield,	5 25



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EXPLANATION OF PLATE LVIII.

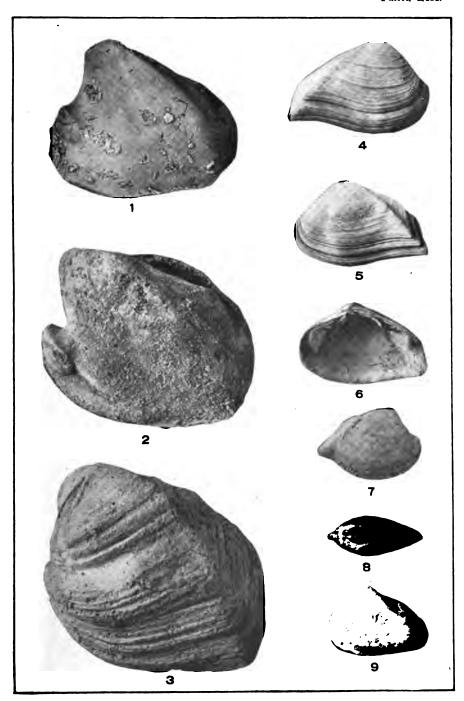
CLAVAGELLA ARMATA Morton,p. 5	525
I-2. Lateral and cardinal views of a very perfect internal cast.	
Navesink marl; Atlantic Highlands, (108).	
LIOPISTHA KÜMMELI n. sp.,p. 5	:20
3. Lateral view of the type specimen, an internal cast.	
Merchantville clay-marl; Lenola, (163).	
LIOPISTHA PROTEXTA (Conrad),p. 5	:26
4. Lateral view of an internal cast of a single valve.	
Red Bank sand; near Middletown, (112).	
5-6. Lateral and cardinal views of a very perfect internal cast.	
Navesink marl; Mullica Hill, (169).	
Liopistha alternata n. sp.,	27
7-8. Lateral views of two internal casts.	
Merchantville clay-marl; near Matawan, (101).	
9. Lateral view of an internal cast.	
Merchantville clay-marl; near Jamesburg, (139).	
CYMELLA BELLA Conrad,p. 5.	30
10. Lateral view of an incomplete internal cast of a single valve.	
Cliffwood clay; near Matawan, (107).	
11. Lateral view of an internal cast of a single valve.	
Wenonah sand; near Marlboro, (130).	
12. Lateral view of the internal cast of a large single valve.	
Woodbury clay; Lorillard, (102).	
CYMELLA UNDATA (Meek and Hayden),p. 5.	31
13. Lateral view of a small single valve.	
Wenonah sand; near Marlboro, (130).	
Cuspidaria jerseyensis n. sp.,p. 5	34
14-15. Lateral and cardinal views of the type specimen.	
Navesink marl; near Crawfords Corner, (1267).	
CUSPIDARIA VENTRICOSA (Meek and Worthen),p. 5.	33
16-17. Lateral views of two more or less distorted internal casts of	
separate .valves.	
Red Bank sand; Red Bank, (116).	
Veniella conradi Morton,p. 5	34
18. External view of a nearly perfect left valve.	
19. View of the hinge of a right valve.	
Marshalltown clay-marl; near Swedesboro, (177).	
ETEA TRAPEZOIDEA (Conrad),p. 5	43
20-21. Lateral views of two internal casts.	
Merchantville clay-marl; near Matawan, (101).	_
VENIELLA? RHOMBOIDEA Conrad,p. 5.	38
22-24. Lateral, cardinal and anterior views of a nearly perfect in-	
ternal cast.	
Manasquan marl; Farmingdale.	
VENIELLA ? DECISA (Morton),p. 5	40
25-26. Lateral and posterior views of an internal cast identified as	
this species by Whitfield.	
Hornerstown marl; Blue Ball.	



PELECYPODA.

EXPLANATION OF PLATE LIX.

Veniella trigona (Gabb),p. 1. Lateral view of an internal cast of the left valve. Navesink marl; near Walnford, (1474). 2. Lateral view of an internal cast of the left valve. 3. Lateral view of a plaster cast taken from the natural mould of the exterior of the same specimen of which fig. 2 is the internal cast. Tinton Beds; Beers Hill Cut, (1298).	537
ETEA CAROLINENSIS Conrad,p. 4-5. External views of a right and a left valve. 6. Internal view of a right valve, showing the hinge. *Marshalltown clay-marl; near Swedesboro, (177).	541
ETEA TRAPEZOIDEA (Conrad),p. 7. Lateral view of a somewhat distorted internal cast of a right valve. **Merchantville clay-marl; Lenola, (163).	543
ETEA DELAWARENSIS (Gabb),p. 8-9. Cardinal and lateral views of a nearly perfect internal cast. Manasquan marl; Pemberton, (101).	546

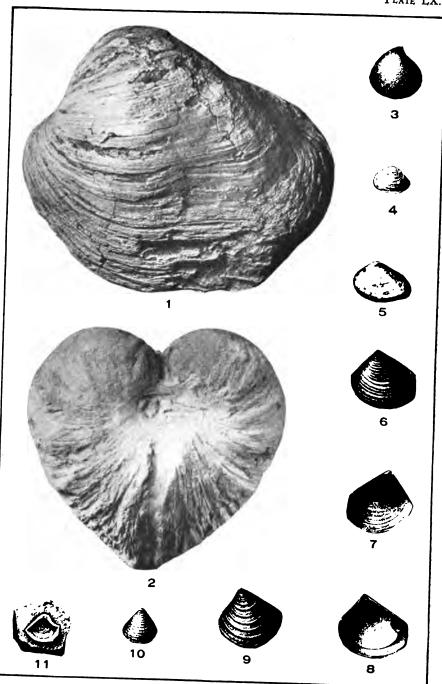


PELECYPODA.

9* Pal.

EXPLANATION OF PLATE LX.

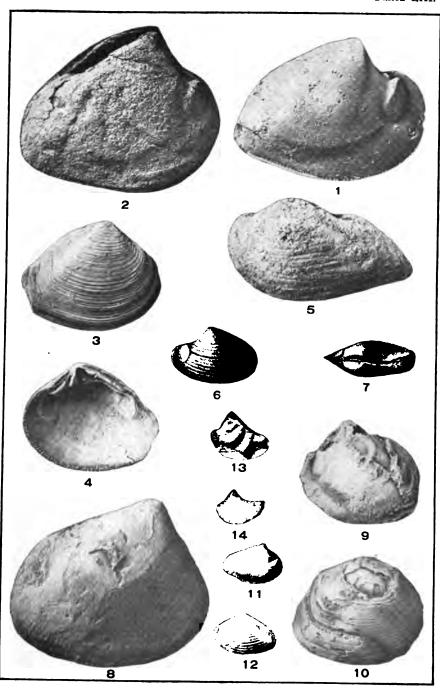
Ambocardia cookii Whitfield,p. 1-2. Lateral and anterior views of the type specimen. Raritan clay.	548
ASTARTE VETA Conrad,p. 3. View of the type specimen. (After Whitfield.) Raritan clay; Washington.	549
ERIPHYLA CONRADI (Whitfield),	550
Eriphyla decemnaria (Conrad),	551
ERIPHYLA DECLIVIS (Conrad),	551
ERIPHYLA PARILIS (Conrad),p. 11. View of the type specimen. (After Whitfield.) Horizon and locality not known.	552



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EXPLANATION OF PLATE LXI.

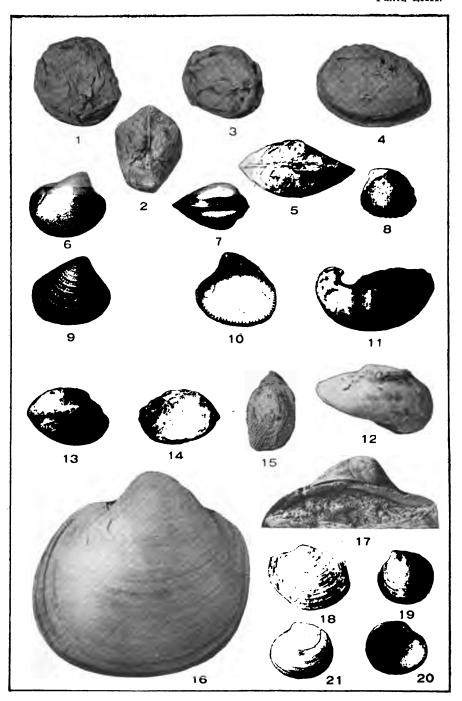
Crassatellites subplanus (Conrad),p. 553
I. The internal cast of a right valve. Navesink marl; near Walnford, (147*).
2. The internal cast of a right valve. Red Bank sand; Red Bank, (116).
3-4. External and internal views of a right valve. Marshalltown clay-marl; near Swedesboro, (177).
CRASSATELLITES TRANSVERSUS (Gabb),
CRASSATELLITES PRORUS (Conrad),
Crassatellites rhombea (Whitfield),p. 561 8. Lateral view of one of the type specimens. Manasquan marl; New Egypt.
Crassatellites littoralis (Conrad),p. 559
9. Lateral view of one of the type specimens of Crassatella con- radi Whitf.
Manasquan marl; Squankum.
10. Lateral view of one of the specimens illustrated by Whitfield. Manasquan marl; Squankum.
Crassatellites cuneatus (Gabb),p. 556
11-12. Lateral views of two internal casts. Merchantville clay-marl; Lenola, (163).
Scambula perplana Contad,p. 562
13. An internal cast of a left valve.
Woodbury clay; Lorillard, (102).
14. An internal cast of a left valve.
Wenonah sand; near Marlborough, (130).



PELECYPODA.

EXPLANATION OF PLATE LXII.

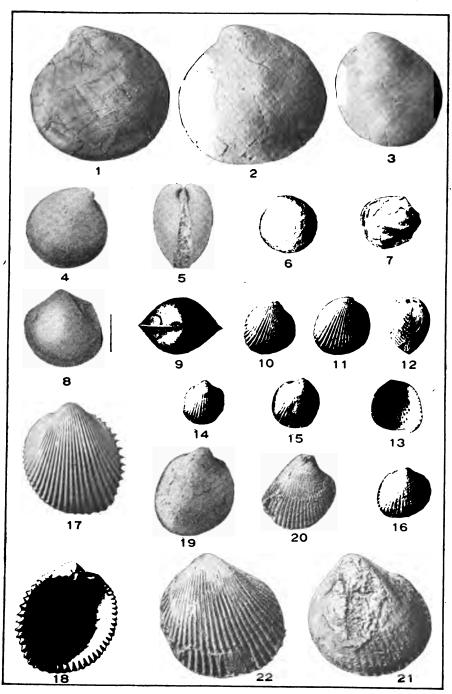
CORBICULA ANNOSA (Conrad),	;6 3
CORBICULA? EMACERATA Whitfield,p. 5 4-5. Lateral and cardinal views of the type specimen. Raritan clay; near Woodbridge.	64
CARDITA INTERMEDIA Whitfield,	65
VETERICARDIA CRENALIRATA (Conrad),p. 5 9-10. External and internal views of one of the type specimens, (x4). (After Whitfield.) Woodbury clay; Haddonfield, (183).	66
DICERAS DACTYLOIDES Whitfield,p. 5 II-I2. Two views of the type specimen. Navesink marl; near Walnford.	67
CAPROTINA JERSEYENSIS n. sp.,	68
UNICARDIUM UMBONATA (Whitfield),p. 5 16-17. Lateral view of a very perfect left valve and the hinge of the same. Marshalltown clay-marl; near Śwedesboro, (177).	69
LUCINA CRETACEA Whitfield,p. 5. 18. Lateral view of the internal cast of a left valve. Woodbury clay; Lorillard, (102).	70
LUCINA SWEDESBOROENSIS n. sp.,	71



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EXPLANATION OF PLATE LXIII.

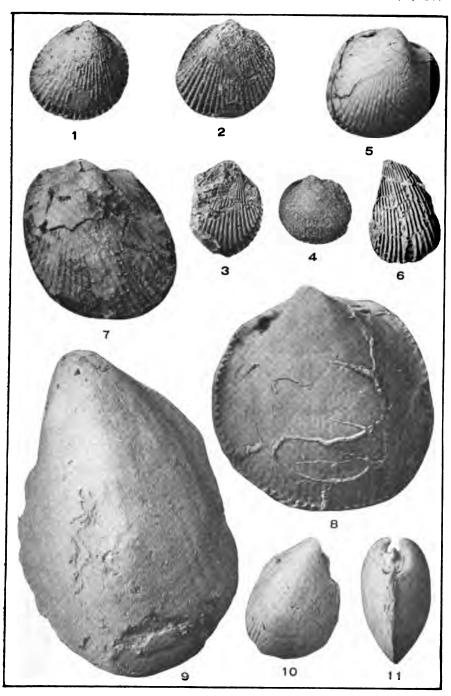
Tenea parills Conrad,
TENEA PINGUIS Conrad,
CARDIUM NUCLEOLUS (Whitfield),
CARDIUM WENONAH n. sp.,
CARDIUM EUFAULENSIS Conrad,
CARDIUM LONGSTREETI n. sp.,



PELECYPODA.

EXPLANATION OF PLATE LXIV.

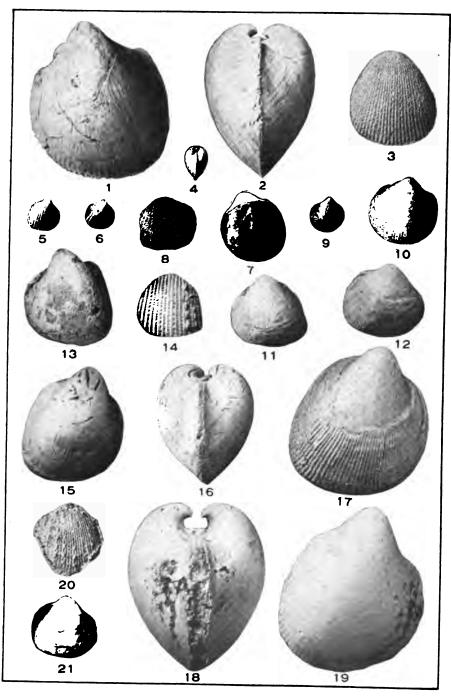
CARDIUM CLIFFWOODENSIS n. sp.,p. 1-2. The internal cast of a right valve and squeeze taken from the natural mould of the exterior of the same. 3. A squeeze taken from another natural mould of the exterior. 4. The internal cast of a small left valve. Cliffwood clay; Cliffwood Point, (185).	581
Cardium lorillardensis n. sp.,p.	582
5. The internal cast of a right valve.	
6. Squeeze from the natural mould of the exterior of the same.	
Woodbury clay, Lorillard (102).	
CARDIUM Sp.	
 Imperfect cast of a left valve illustrated by Whitfield as C. eufaulensis. 	
Navesink marl; Holmdel.	
Cardium whitfieldi n. sp.,p.	58o
8. Left lateral view of the type specimen, a nearly complete internal cast.	
Woodbury clay; Lorillard, (102).	
CARDIUM SPILLMANI Conrad,p.	583
9. Lateral view of a large internal cast of a left valve.	
Navesink marl; near Walnford, (147*).	
10-11. Lateral and anterior views of a small, nearly perfect internal	
cast.	
Merchantville clay-marl: near Matawan. (101).	



PELECYPODA.

EXPLANATION OF PLATE LXV.

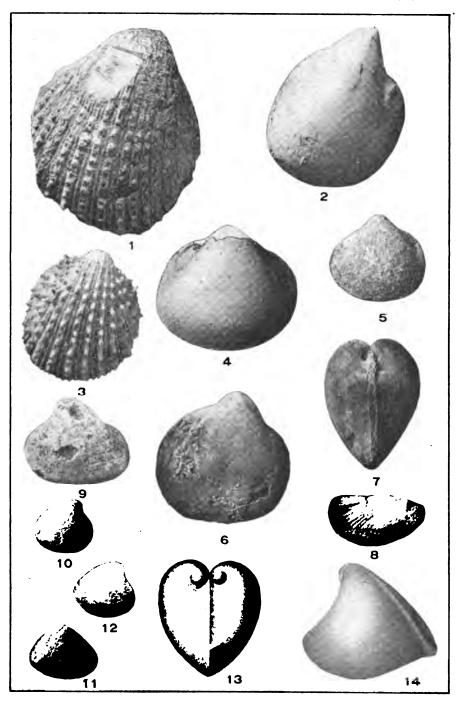
CARDIUM UNIFORMIS n. sp.,p. 1-2. Lateral and posterior views of a very perfect internal cast. 3. Squeeze taken from a portion of the natural external mould of the same. Woodbury clay; Lorillard, (102).	588
CARDIUM RIPLEYANUM Conrad,p. 4-5. Posterior and lateral views of a complete internal cast, (x2). 6. Lateral view of another internal cast, (x2). Woodbury clay; Lorillard, (102).	582
CARDIUM DUMOSUM Conrad,p. 7-8. The incomplete cast of a left valve and a squeeze taken from the natural mould of the exterior of the same. 9. Lateral view of a small, very perfect internal cast. 10. The same (x2). Woodbury clay; Lorillard, (102).	590
CARDIUM PILSBRYI n. sp.,p. 11-12. Lateral views of two internal casts, a left valve and a right valve. Merchantville clay-marl; Lenola, (163).	594
CARDIUM TENUISTRIATUM (Whitfield),p. 13. View of the type specimen. Wenonah sand; near Marlboro. 14. View of a squeeze from a natural mould of the exterior, to show the character of the surface markings. Merchantville clay-marl; Lenola, (163). 15-16. Lateral and posterior views of a nearly perfect internal cast. Merchantville clay-marl; Lenola, (163). 17. A right valve partially preserving of the shell. Marshalltown clay-marl; near Swedesboro, (177). 18-19. Anterior and lateral views of a nearly perfect internal cast. Marshalltown clay-marl; Marshalltown, (190).	591
CARDIUM TRILLINEATUM n. sp.,	589
PROTOCARDIUM JERSEYENSIS n. sp.,	596



PELECYPODA.

EXPLANATION OF PLATE LXVI.

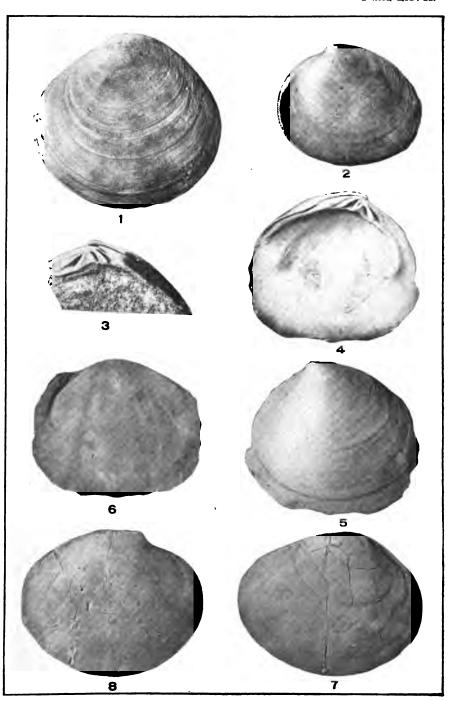
Cardium kümmeli n. sp.,p.	585
 Lateral view of an incomplete right valve partially preserving the shell. 	
2. The internal cast of a right valve.	
Tinton beds; Beers Hill Cut, (1298).	
3. External view of a perfect right valve.	
Mississippi, Coll. U. S. Nat. Mus.	
CARDIUM KNAPPI n. sp.,p.	595
4. The internal cast of a right valve.	
Vincentown sand; near Deal, (122).	
5. The internal cast of a left valve.	
Vincentown limesand; New Egypt, (143).	
6-7. Lateral and anterior views of a nearly complete internal cast.	
Hornerstown marl; near Juliustown, (160).	
Fulvia tenuis Whitfield,p.	597
8. View of the type specimen.	
Navesink marl; Holmdel.	
Isocardia tintonensis n. sp.,p.	599
9. View of the type specimen.	
Tinton beds; Beers Hill Cut, (1298).	
ISOCARDIA CLIFFWOODENSIS Weller,p.	508
10-11. Lateral views of two internal casts of single valves.	
Cliffwood clay; near Matawan, (186).	
12. Lateral view of an internal cast of a right valve.	
Cliffwood clay; near Matawan, (107).	
Isocardia conradi Gabb,p.	500
13-14. Anterior and lateral views of the type specimen. (After	333
Whitfield.)	
Vincentown limesand; Timber Creek.	



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EXPLANATION OF PLATE LXVII.

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
CYPRIMERIA EXCAVATA (Morton),p. 602
1-2. Views of two left valves.
3. View of the hinge of the right valve.
4-6. Interior and exterior views of a left valve, and a plaster cast taken from the interior of the same.
Marshalltown clay-marl; near Swedesboro, (177).
Cyprimeria cretacea Confad,p. 604
7-8. The internal cast of a right valve, and a plaster cast taken
from the natural mould of the exterior of the same.
Woodbury clay: Lorillard (102)



10* Pal

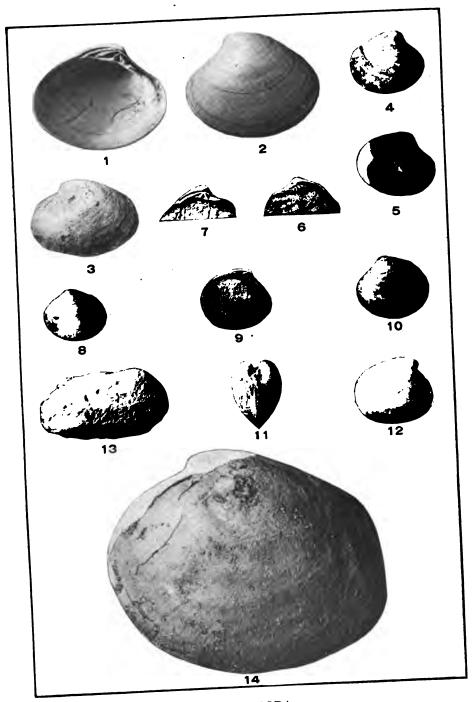
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EXPLANATION OF PLATE LXVIII.

MERETRIX TIPPANA Conrad,p. 605 1-2. Internal and external views of a perfect left valve. Ripley, Miss. Coll. U. S. Nat. Mus., No. 20,690. 3. A somewhat distorted cast of the interior of a left valve. Merchantville clay-marl; Lenola, (163).
MERETRIX CRETACEA (Conrad),p. 600 4-5. Views of two right valves. 6-7. Views of the hinges of the two valves. Marshalltown clay-marl; near Swedesboro, (177).
MERETRIX EUFAULENSIS (Conrad),p. 609 8. View of a left valve. 9–10. Interior and exterior views of a left valve. Marshalltown clay-marl; near Swedesboro, (177).
CARYATIS VETA Whitfield,p. 61: 11-12. Anterior and lateral views of an internal cast. Manasquan marl; near New Egypt, (155).
Petricola nova-aegyptica Whitfield,
CYPRIMERIA DENSATA (Conrad),

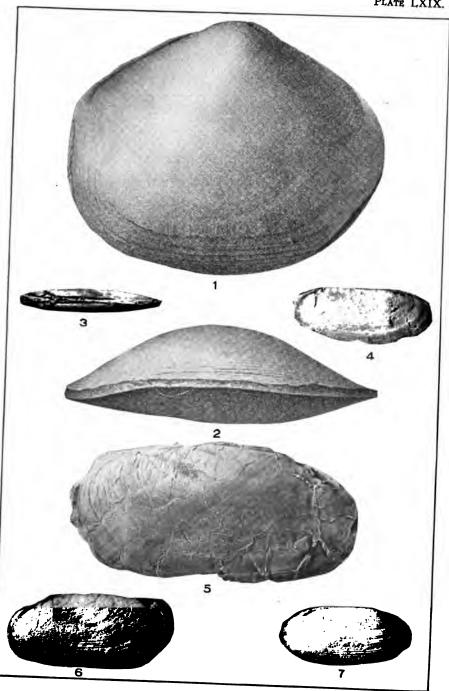




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EXPLANATION OF PLATE LXIX.

CYPRIMERIA DENSATA (Conrad),p. 1-2. Lateral and ventral views of the type specimen, a large internal cast. (After Whitfield.) Burlington.	601
LEGUMEN PLANULATUM (Conrad),p.	612
3-4. Cardinal and lateral views of an internal cast illustrated by	012
Whitfield.	
Navesink marl; Freehold.	
'5. Lateral view of a large internal cast.	
Woodbury clay; Lorillard, (102).	
6. Lateral view of an internal cast.	
Merchantville clay-marl; near Matawan, (101).	
7. Iateral view of an internal cast.	
Woodbury clay; near Haddonfield, (168).	



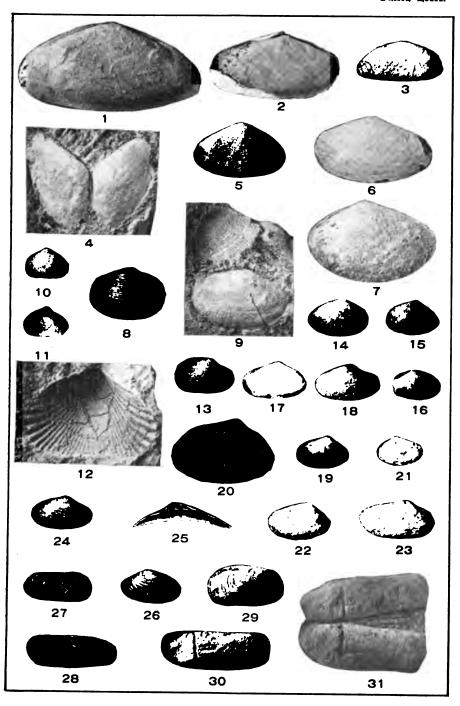
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EXPLANATION OF PLATE LXX.

TELLINA GEORGIANA Gabb,
Tellina sp.
3. Lateral view of the internal cast of a right valve. Cliffwood clay; near Matawan, (107).
Peronaeoderma Georgiana Gabb,
TELLINA Sp.
7. The internal cast of a right valve. Wenonah sand; Crawfords Corner, (126 ³).
Linearia metastriata Conrad,
T
Inearia ornatissima n. sp.,
LINEARIA CONTRACTA Whitfield,
TELLINIMERA EBOREA Conrad,
AENONA ENFAULENSIS Conrad,

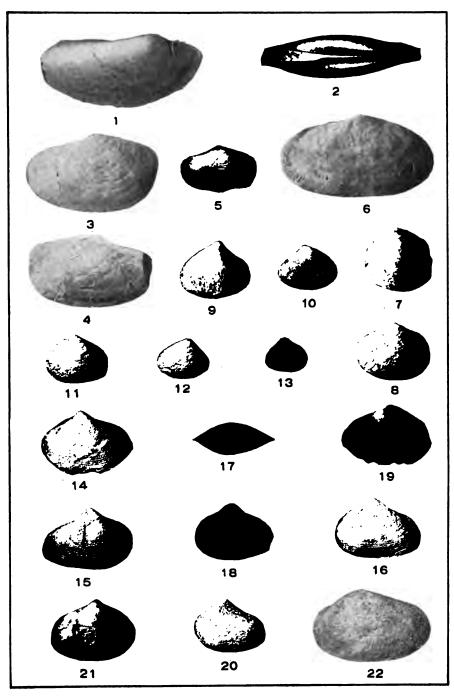
Aenona papyria Conrad,p.	624
26. Lateral view of the type specimen.	
Woodbury clay; Haddonfield, (183).	
Leptosolen ? elongata n. sp.,p.	627
27. Lateral view of the internal cast of a left valve.	
Red Bank sand; Red Bank, (116).	
28. Lateral view of the internal cast of a left valve.	
Red Bank sand; near Middletown, (112).	
Leptosolen ? terminalis n. sp.,p.	626
29. Lateral view of an internal cast of a right valve.	
Merchantville clay-marl; near Jamesburg, (139).	
Leptosolen biblicata Confad,p.	624
30. Lateral view of an internal cast of a single valve.	
31. View of the cast of a pair of outspread valves.	
Wenonah sand; near Marlboro, (130).	



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EXPLANATION OF PLATE LXXI.

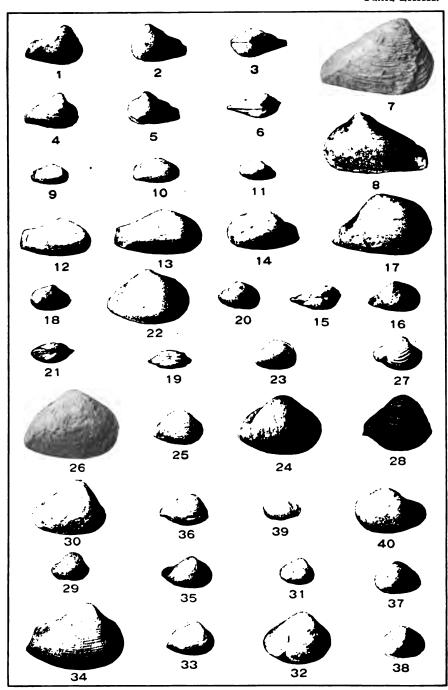
SILIQUA CRETACEA Gabb,p. 1-2. Lateral and cardinal views of the type specimen. (After Whitfield.)	628
Solyma Lineolata Conrad,p. 3-4. Lateral views of the internal casts of two single valves, a left one and right one. Woodbury clay; Lorillard, (102). 5. Lateral view of a small internal cast. Merchantville clay-marl; Lenola, (163). 6. Lateral view of a large internal cast. Woodbury clay; near Matawan, (103).	
MACTRA PENTANGULARIS n. sp.,	631
, , , ,	
CYMBOPHORA LINTEA (Conrad),p. 9-10. Views of the internal casts of two single valves,	632
Cliffwood clay; Cliffwood Point, (185).	
11. View of the internal cast of a single valve.	
Cliffwood clay; near Matawan, (107).	
12–13. Views of the internal casts of two single valves. Red Bank Sand; Shrewsbury River, (119).	
Commence of the control of the contr	<i>c</i>
Schizodesma appressa Gabb,p.	034
14. View of the type of Veleda transversa Whitf. Wenonah sand; near Marlboro.	
15-16. Views of a right valve and a left valve.	
Wenonah sand; near Marlboro, (130).	
17-18. Cardinal and lateral views of a complete specimen from	
Kaufman, Texas.	
Coll. U. S. Nat. Mus., No. 21,006.	
19. Lateral view of a right valve from Chatfield, Texas.	
Coll. U. S. Nat. Museum.	
20. Lateral view of the internal cast of a left valve.	
Wenonah sand; near Crawfords Corner, (1268).	
21. Lateral view of a right valve, more broadly truncate behind	
than usual.	
Cliffwood clay; Cliffwood Point, (105).	
CYMBOPHORA TELLINOIDES (Whitfield),p.	633
22. View of the type specimen.	
Wenonah sand; near Marlboro.	



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EXPLANATION OF PLATE LXXII.

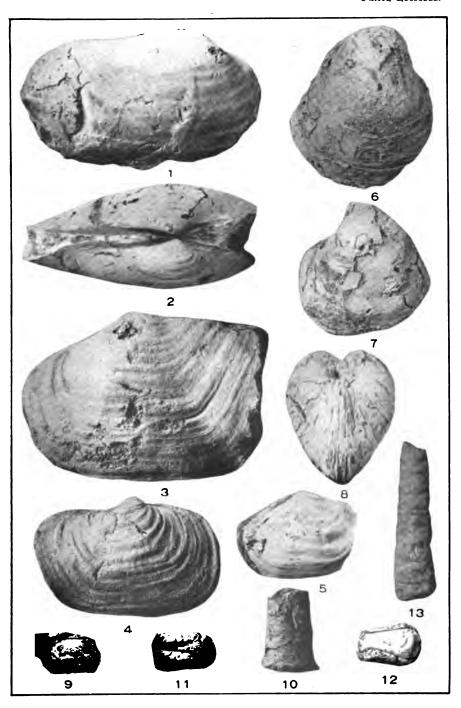
CORBULA MANLEYI n. sp.,p. 636
1-3. Right, left and cardinal views of a plaster cast from a natural
mould of this species.
4-6. Right, left and cardinal views of the internal cast of the same
specimen.
7. The right side of the plaster cast, (x2).
8. The left side of the internal cast, (x2).
Raritan formation; Sayreville.
CORBULA LORILLARDENSIS n. sp.,p. 637
9-11. Views of three single valves.
12-14. Views of the same, (x2).
Woodbury clay; Lorillard, (102).
CORBULA BISULCATA Conrad,
15-16. Cardinal and lateral views of a plaster cast from a natural
mould, partially restored.
17. Lateral view of the same, (x2).
18-19. Lateral and cardinal views of an internal cast.
20-22. Lateral and cardinal views of an internal cast, and a lateral
view of the same, (x2).
Cliffwood clay; Cliffwood Point, (105).
CORBULA FOULKEI Lea,
23. Lateral view of an internal cast.
24. The same, (x2).
25. Lateral view of a plaster cast from the natural mould of the exterior of the same individual.
26. The same, (x2).
Woodbury clay; near Matawan, (103).
CORBULA CRASSIPLICA Gabb,p. 641
27. Lateral view of a squeeze from a natural mould, (x2).
Merchanteille clay-marl; near Jamesburg, (139).
28. Lateral view of a right valve, (x3). (After Whitfield.)
Woodbury clay; Haddonfield, (183).
CORBULA CLIFFWOODENSIS n. sp.,
29. Lateral view of the internal cast of a right valve.
30. The same, (x2).
31. Lateral view of the internal cast of a right valve.
32. The same, (x2).
Cliffwood clay; Cliffwood Point, (185).
Corbula swfdesboroensis n. sp
33. Lateral view of the type specimen.
34 The same, (x2).
Marshalltown clay mark; near Swedesboro, (177).
35. Lateral view of the internal east of a single valve.
Cliffwood clay; near Matawan (180).
Corbula jersevensis m. sp
37-38. Lateral views of two internal casts.
Chinesed clays Cliffwood Point, (185).
30. Lateral view of the internal east of a left valve.
40 The same, (x2).
Christian Christian Polit, (185).
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EXPLANATION OF PLATE LXXIII.

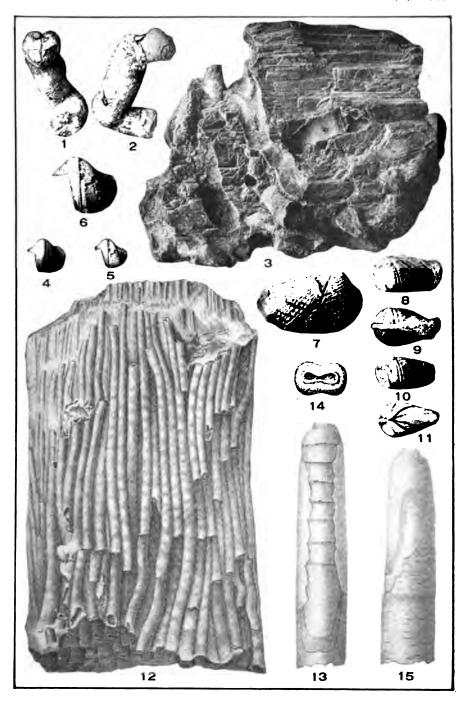
PANOPEA ELLIPTICA Whitfield,
Panopea decisa Conrad,
RANGIA? TENUIDENS (Whitfield),
GASTROCHAENA LINGUIFORMIS n. sp.,
Gastrochaena whitfield n. sp.,
GASTROCHAENA AMERICANA Gabb,p. 649 13. View of the cast of a tube, Vincentown limesand; New Egypt, (143).



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EXPLANATION OF PLATE LXXIV.

Teredo irregularis Gabb,	
Turnus kümmeli n. sp.,p. 6 4-5. Lateral views of two left valves. 6. The same as figure 5, (x2). Marshalltown clay-marl; near Swedesboro, (177).	i52
PHOLAS CITHARA Morton,p. 6 7. Lateral view of an internal cast. Woodbury clay; Lorillard, (102).	51
MARTESIA CRETACEA Gabb,p. 6 8-9. Lateral and ventral views of an internal cast, (x2). 10-11. Lateral and cardinal views of an internal cast, (x2). Marshalltown clay-marl; near Swedesboro, (177).	i54
Polorthus tibialis (Morton),	i59

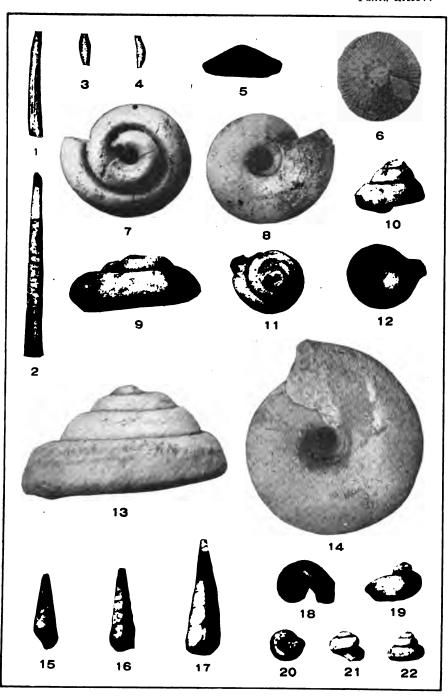


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EXPLANATION OF PLATE LXXV.

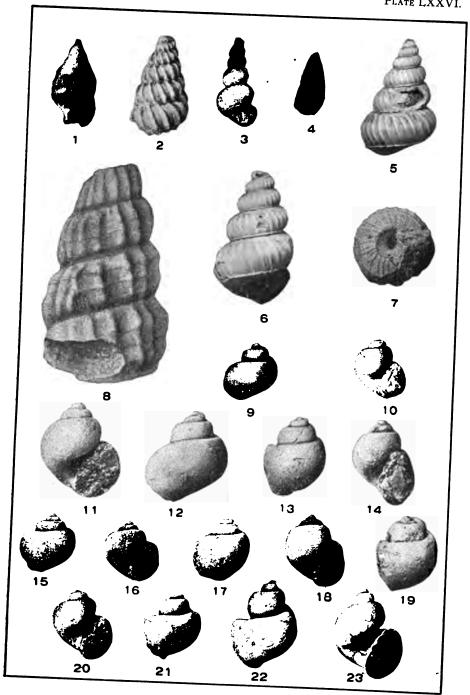
Dentalium subarcuatum Conrad,p. 1. View of a squeeze from a natural mould of the exterior. 2. View of an internal cast. Woodbury clay; Lorillard, (102).	661
CADULUS OBNUTUS (Conrad),p. 3-4. Lateral views from different sides of two internal casts, (x2). Woodbury clay; Lorillard, (102).	663
PATELLA TENTORIUM Morton,p. 5-6. Lateral and vertical views of the type specimen, (x2). Navcsink marl; near Arneytown.	663
PLEUROTOMARIA CROTALOIDES (Morton),p. 7-9. Vertical, basal and lateral views of an internal cast. Navesink marl; near Crawfords Corner, (126 ^t).	665 1
PLEUROTOMARIA BRITTONI Whitfield,p. 10-12. Lateral, vertical and basal views of the type specimen. Manasquan marl; Farmingdale.	667
PLEUROTREMA SOLARIFORMIS Whitfield,p. 13-14. Lateral and basal views of one of Whitfield's type specimens. Vincentown limesand; Timber Creek.	667
Leiostraca cretacea (Conrad),p. 15. Lateral view of a specimen (x4). 16. Lateral view of a specimen (x4). 17. Lateral view of a specimen (x3). Woodbury clay; Haddonfield, (183).	671
DELPHINULA NAVESINKENSIS n. sp.,	669
MARGARITA ABYSSINA (Gabb),p. 20-21. Basal and lateral views of an internal cast. Merchantville clay-marl; Lenola, (163). 22. Lateral view of an internal cast. Navesink marl; Middletown, (113).	669



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EXPLANATION OF PLATE LXXVI.

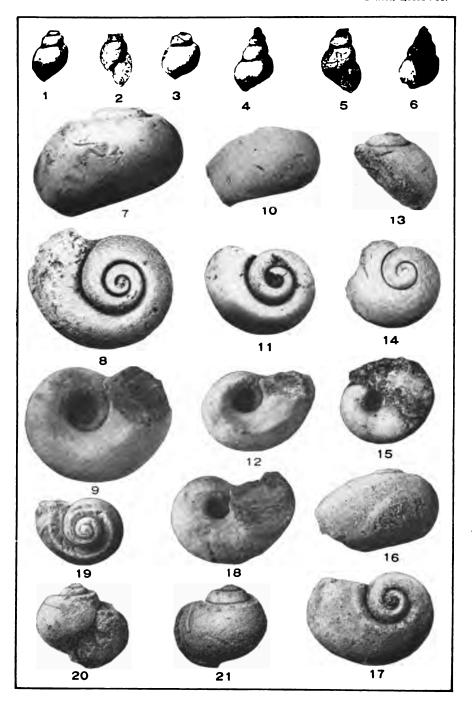
Obeliscus conellus Whitfield,p.	672
I. Lateral view of the type specimen, enlarged.	J/2
Woodbury clay; Haddonfield, (183).	
SCALA SILLMANI (Morton),p. 2. Lateral view of a specimen from Alabama preserving the shell.	672
Pal. Coll. Walker Mus., No. 10,835. 3. Lateral view of an internal cast illustraed by Whitfield. Navesink marl; Holmdel.	
Scala thomasi Gabb?,p. 4. Lateral view of the specimen illustrated by Whitfield. Horizon and locality not known.	674
CAVOSCALA ANNULATA (Morton),p. 5-7. Two lateral views and a basal view from two nearly perfect specimens. Vincentown limesand; Timber Creek.	676
,	6
SCALA? HERCULES Whitfield,p. 8. Lateral view of the type specimen. (After Whitfield.) Cliffwood clay?; Cliffwood Point.	. 0/5
LUNATIA HALLI Gabb,p. 9–10. Two views of an internal cast. Merchantville clay-marl; Lenola, (163).	677
11-14. Two views each of two specimens. Navesink marl; Mullica Hill, (169).	
15-16. Two views of one specimen.	
17-19. Views of three different specimens. Wenonah sand; near Crawfords Corner, (1263).	
LUNATIA ? PAUPERATA (Whitfield),p. 20-23. Two lateral views each of the two type specimens. Navesink marl: Crosswicks Creek.	. 680



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EXPLANATION OF PLATE LXXVII.

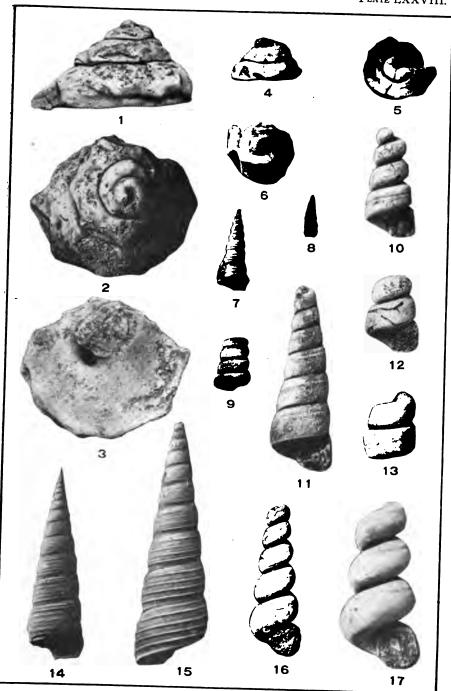
AMAURAPSIS MEEKANA Whitfield,	5 8 1
AMAUROPSIS PUNCTATA (Gabb),p. 4-6. Lateral views of three specimens, fig. 6 being that of the type specimen. Navesink marl; Mullica Hill.	682
Gyrodes abyssina (Morton),	683
Gyrodes crenata Conrad,p. 10–12. Lateral, vertical and basal views of an internal cast. Merchantrille clay-marl; Lenola, (163).	685
Gyrodes petrosus (Morton),	689
Gyrodes altispira (Gabb)	687



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EXPLANATION OF PLATE LXXVIII.

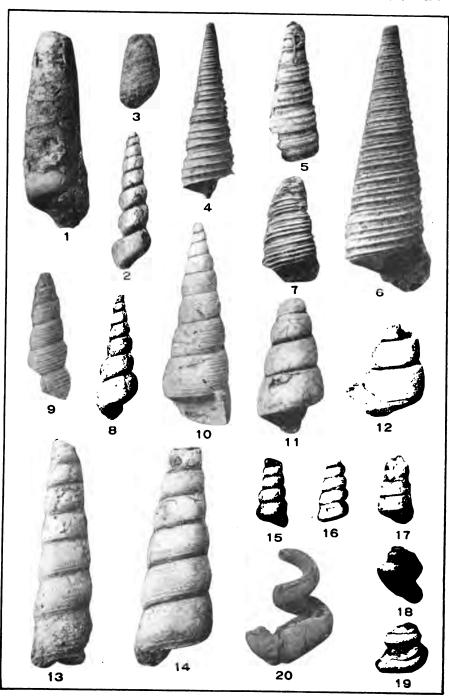
XENOPHORA LEPROSA (Morton),p. 650 1-3. Lateral, vertical and basal views of an internal cast. Navesink marl; Atlantic Highlands.	
Endoptygma umeilicata (Tuomey),p. 692 4-6. Lateral, basal and vertical views of an internal cast. Merchantville clay-marl; Lenola, (163).	
Turritella quadrilira Johnson,p. 695 7. Lateral view of a plaster cast from a natural mould. Cliffwood clay; Cliffwood Point, (105).	
Turritella lenolensis n. sp.,	
Turritella sp., 9. Lateral view of an internal cast. Manasquan marl; Farmingdale.	
Turritella encrinoides Morton,	
Navesink marl; near Walnford, (149).	
TURRITELLA VERTEBROIDES Morton,	
Navesink marl; near Walnford, (149). 17. Lateral view of a large internal cast illustrated by Whitfield. Navesink marl	



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EXPLANATION OF PLATE LXXIX.

TURRITELLA LIPPINCOTTI Whitfield,
TURRITELA JERSEYENSIS n. sp.,
TURRITELLA TRILIRA Conrad,
Turritella tippana Conrad,
Turritella sp. 8. Lateral view of an internal cast. 9. Lateral view of a plaster cast from a natural mould of the exterior. Wenonah sand; near Crawfords Corner, (126 ^a).
TURRITELLA LORILLARDENSIS n. sp.,
TURRITELLA MERCHANTVILLENSIS n. sp.,
TURRITELLA MARSHALLTOWNENSIS n. sp.,
TURRITELLA GRANULICOSTA Gabb,
SILIQUARIA PAUPERATA Whitfield,



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EXPLANATION OF PLATE LXXX.

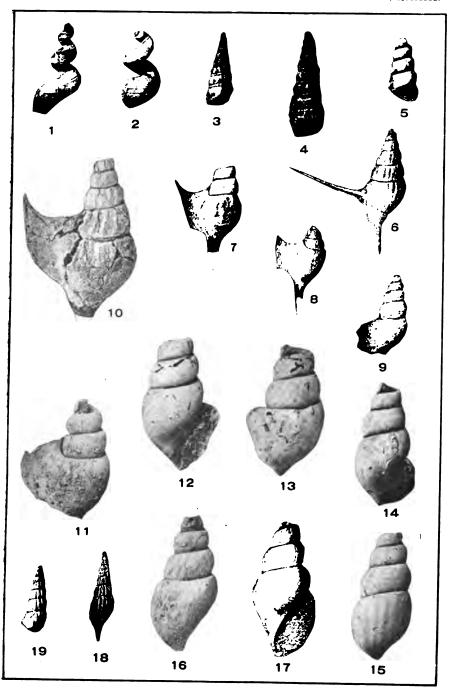
 Slab of sandstone containing casts of Turritella sp., and a mould of a small pelecypod shell, probably Cymbophora lintea.

Raritan; Sayreville.



EXPLANATION OF PLATE LXXXI.

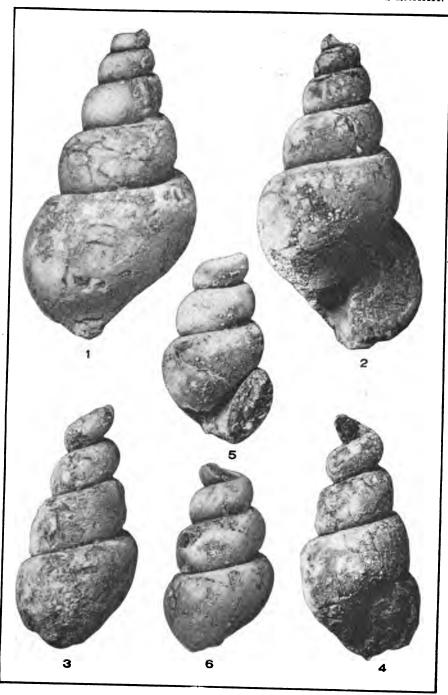
1.	Lumbricalis Gabb,
	M PILSBRYI Whitfield,p. 708 Lateral views of two plaster casts from natural moulds of the exterior.
5.	Lateral view of an internal cast. Merchantville clay-marl; Lenola, (163).
Anchura	SOLITARIA Whitfield,p. 714
	Lateral view of a nearly perfect specimen. Merchantville clay-marl; near Jamesburg, (141).
Anchura	ROSTRATA (Gabb),p. 709
7.	Lateral view of a specimen showing the form of the expanded aperture.
8.	Merchantville clay-marl; Lenola, (163). Lateral view of a specimen showing the expanded aperture. Merchantville clay-marl; near Matawan, (101).
9.	Lateral view of a specimen referred doubtfully to this species. Wenonah sand; near Crawfords Corner, (1263).
Anchura	PENNATA (Morton),p. 711
10.	Lateral view of a specimen showing the expended aperture. Navesirk marl; Holmdel.
11.	Lateral view of a specimen whose expanded aperture is partially preserved. Navesink marl; Mullica Hill, (169).
12–13.	Two lateral views of the type specimen of A. compressa Whitf. Navesink marl; Upper Freehold.
, ,	Two lateral views of an incomplete internal cast. Navesink marl; Middletown, (113)
16–17.	Two lateral views of an incomplete internal cast. Navesink marl; Mullica Hill, (169).
Anchura	PERGRACILIS Johnson,p. 713
	Lateral view of a squeeze from a natural mould of the exterior.
19.	Woodbury clay; near Matawan, (101). Lateral view of a plaster cast from a natural mould, doubtfully referred to this species. Cliffwood clay; Cliffwood Point, (185).



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EXPLANATION OF PLATE LXXXII.

Anchura	ABRUPTA Conrad,p. 715
I-2.	Two lateral views of the type of Rostellaria nobilis Whitf.
	Navesink marl ?; no locality.
3-4-	Two lateral views of the type of Anchura pagodaformis Whitf.
	Navesink marl; Monmouth County.
5–6.	Two lateral views of the type of Rostellaria hebe Whitf. Navesink marl; Mullica Hill.

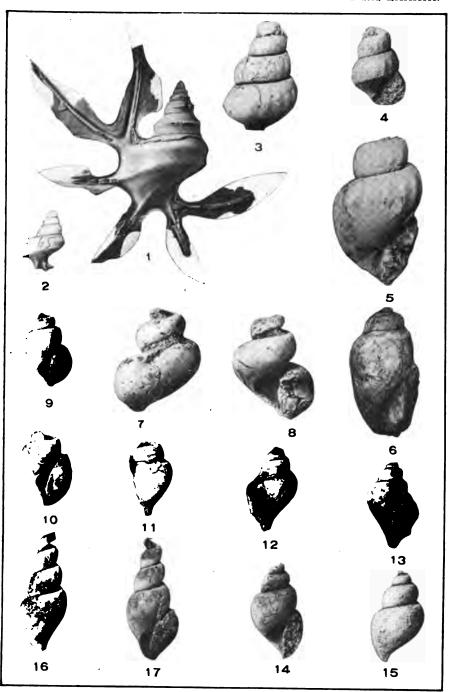


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12* PAL

EXPLANATION OF PLATE LXXXIII.

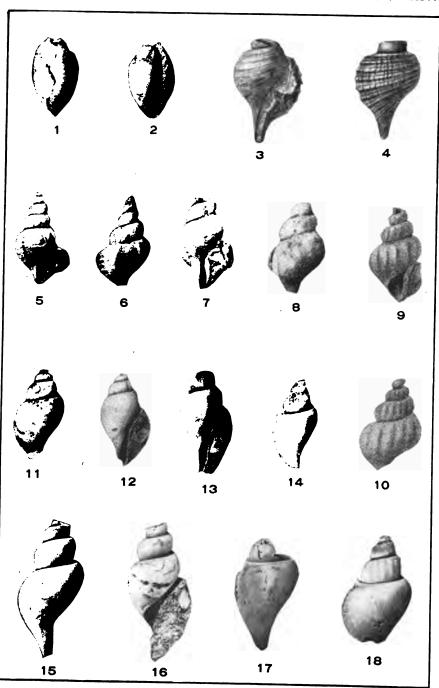
Petrocerella tippana (Conrad),	18
Wenonah sand; near Crawfords Corner, (1263).	
Anchura abrupta Conrad,p. 71 3-4. Lateral views of two small, incomplete internal casts. Navesink marl; near Crawfords Corner, (1267).	15
Anchura arenaria (Morton),p. 75 5. Lateral view of the type specimen. Navesink marl.	17
Pugnellus densatus Conrad,	20
Turbinopsis? Major Whitfield,p. 79 7–8. Two lateral views of the type specimen. Navesink marl; Navesink hills.	99
ROSTELLARIA CURTA Whitfield,	21
Turbinopsis? elevata Whitfield,p. 79 14–15. Two lateral views of a nearly complete internal cast. Navesink marl; Mullica Hill, (169).	97
Rostellaria fusiformis Whitfield,p. 7: 16–17. Two lateral views of the type specimen. Navesink marl; Crosswicks creek.	22



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EXPLANATION OF PLATE LXXXIV.

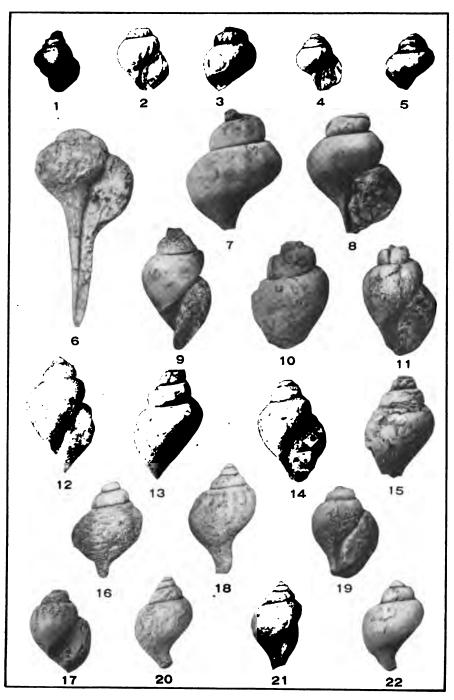
CYPRAEA MORTONI Gabb,p. 722 I-2. Two views of an internal cast. Navesink marl; Atlantic Highlands.
Pyrula precedens (Whitfield),
Triton lorillardensis n. sp.,
Triton Fraecedens Whitfield,
TRACHYTRITON? HOLMDELENSE Whitfield,
TRACHYTRITON ATLANTICUM Whitfield,
TRACHYTRITON? MULTIVARICOSUM Whitfield,



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EXPLANATION OF PLATE LXXXV.

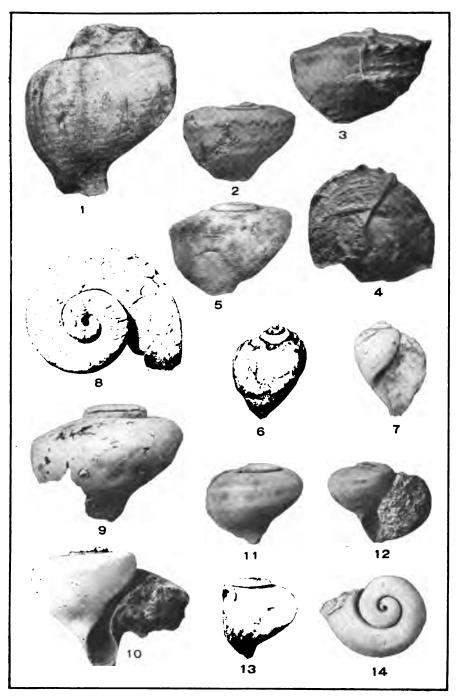
Perissolax dubia (Gabb),
Perissolax trivolva Gabb,p. 731 6. Lateral view of the type specimen. Vincentown limesand, Timber Creek.
Pyrifusus meeki Whitfield,p. 732 7-8. Two lateral views of a nearly perfect internal cast. One of the type specimens. Navesink marl; Mullica Hill.
Pyrifusus mullicaensis (Gabb),
Pyrifusus erraticus Whitfield,
Pyrifusus Macfarlandi Whitfield,
Hercorhynchus Jerseyensis n. sp.,



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EXPLANATION OF PLATE LXXXVI.

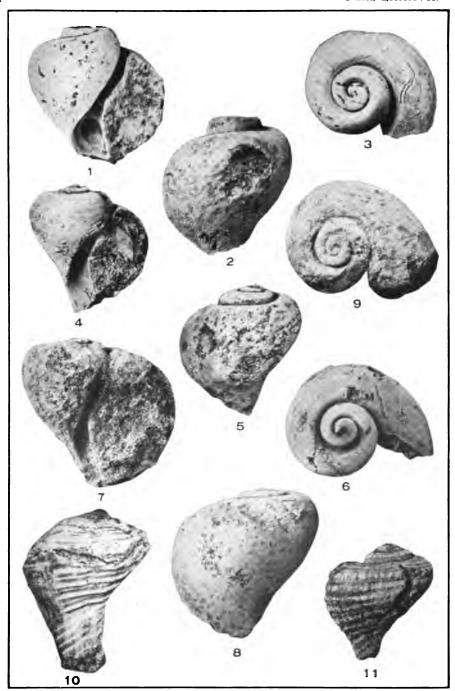
NASSA GLOBOSA Gabb,p. 738 1. Lateral view of a somewhat crushed internal cast. Wenonah sand; near Marlboro, (130).
Pyropsis richardsoni (Tuomey),
3-4. Lateral and vertical views of a plaster cast from a natural mould partially showing the external characters of the shell.
5. Lateral view of the internal cast of the same individual. Merchantville clay-marl; near Matawan, (101).
Pyropsis pyruloidea (Gabb),p. 742 6-7. Two lateral views of the type specimen. Navesink marl; Burlington County.
Pyropsis septemlirata Gabb,p. 744 8-10. Vertical and two lateral views of an internal cast, illustrated as P. perlata by Whitfield. Navesink marl; Freehold.
Pyropsis planimarginata (Whitfield),



GASTROPODA.

EXPLANATION OF PLATE LXXXVII.

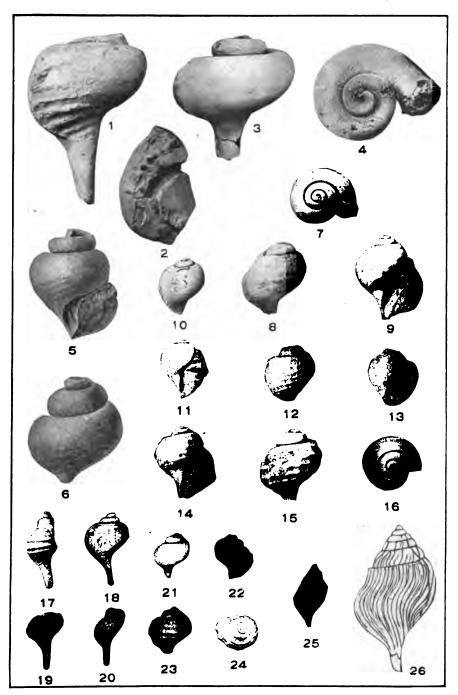
Pyropsis trochiformis (Tuomey),p. 746
1-3. Two lateral views and a vertical view of a specimen illus-
trated by Whitfield as P. reileyi.
Navesink marl; Holmdel.
4-6. Two lateral views of one specimen and a vertical view of another individual.
Navesink marl; Mullica Hill, (169).
7-9. Two lateral views and a vertical view of a specimen illus- trated by Whitfield as P. richardsoni.
Navesink marl; Monmouth County.
10. Lateral view of a specimen partially preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
11. Lateral view of a specimen illustrated by Whitfield partially preserving the external characters.
Navesink marl.



GASTROPODA.

EXPLANATION OF PLATE LXXXVIII.

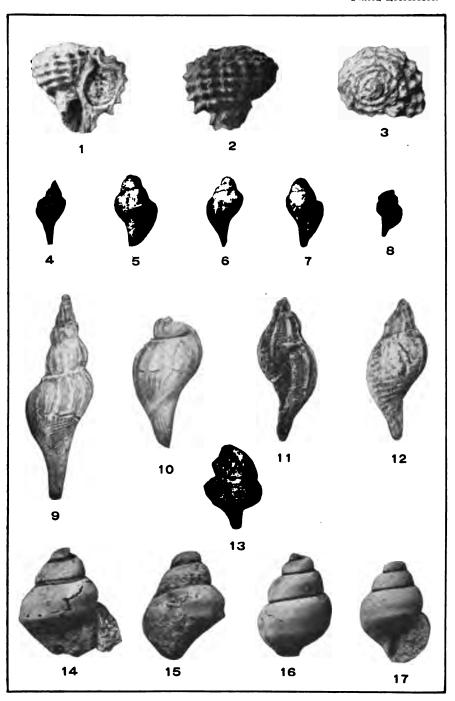
Pyropsis septemlirata Gabb,p.	744
1-2. Lateral and vertical views of a plaster cast from a natural mould, showing some of the external features of the	
shell.	
3-4. Lateral and vertical views of the internal cast of the same individual.	
Navesink marl; Mullica Hill, (169).	
Pyropsis? obesa Whitfield,p.	748
5-6. Two lateral views of the type specimen. (After Whitfield.) Navesink marl; Mullica Hill.	,
Pyropsis retifer (Gabb),p.	740
7-9. Vertical, and two lateral views of a nearly complete internal cast.	
Navesink marl.	
10-11. Two vertical views of the type specimen of Dolium mul- tiliratum Whitf.	
Navesink marl; Freehold.	
12-13. Two lateral views of an internal cast.	
Wenonah sand; near Crawfords Corner, (1263).	
Pyropsis whitfieldi n. sp.,p.	750
14-16. Two lateral views and a vertical view of the type specimen.	
Illustrated by Whitfield as P. octolirata Con.	
Navesink marl; near Walnford.	
Pyropsis octolirata (Conrad),p.	75 1
17. Lateral view of a plaster cast from a natural mould, showing	
the external characters of the shell.	
18. Internal cast of the same individual.	
Woodbury clay; Lorillard, (102).	
Pyropsis sp.	
19. Lateral view of a somewhat distorted individual.	
Red Bank sand; Shrewsbury River, (119).	
Pyropsis lenolensis n. sp.,p.	752
20. Lateral view of a distorted individual showing the elongate anterior canal.	, , ,
21-22. Two lateral views of an internal cast.	
23–24. Lateral and vertical views of a plaster cast from a natural mould of the same individual.	
Merchantville clay-marl; Lenola, (163).	
EUTHRIA ? FRAGILIS Whitfield,p.	753
25. Lateral view of the type specimen.	
26. Enlarged outline view of the same. (After Whitfield.)	
Woodbury clay; Haddonfield, (183).	



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EXPLANATION OF PLATE LXXXIX.

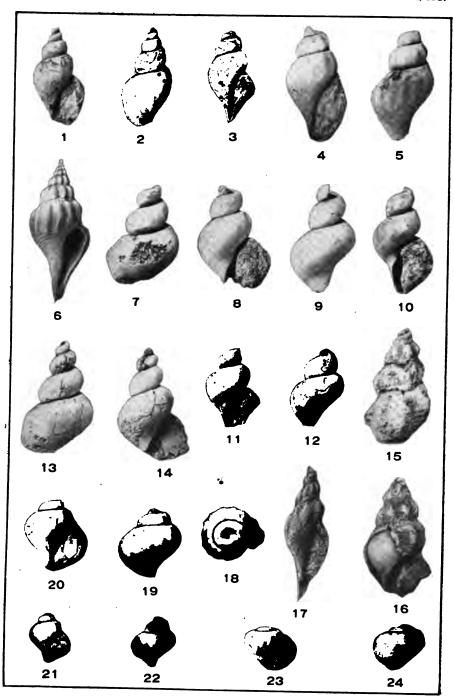
RAPANA STANTONI n. sp.,
Fusus holmesianus Gabb,
Fusus sp. 5. Lateral view of a plaster cast from a natural mould of the exterior. Wenonah sand; near Crawfords Corner, (1263).
Fusus cliffwoodensis n. sp.,
CRYPTORHYTIS OBLIQUICOSTATA Gabb,
Fusus lorillardensis n. sp.,
Fusus holmdelensis Whitfield,
SERRIFUSUS NODOCARINATUS Whitfield,p. 760 13. Lateral view of the type specimen. Navesink marl; Holmdel.
Serrifusus crosswickensis Whitfield,



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EXPLANATION OF PLATE XC.

ODONTOFUSUS MEDIANS Whitfield,
4-5. Two lateral views of a larger internal cast. Navesink marl; near Walnford, (149).
6. Lateral view of a shell referred to this species. Ripley, Mississippi, Coll. U. S. Nat. Mus., No. 20,490.
Odontofusus typicus Whitfield,p. 763 7-12. Two lateral views each of three type specimens used by Whitfield.
Navesink marl; Crosswicks Creek.
13-14. Two lateral views of an internal cast.
Navesink marl, near Crawfords Corner, (126 ¹). 15–16. Two lateral views of a specimen retaining part of the shell. Navesink marl; Mullica Hill, (169).
Odontofusus slacki (Gabb),p. 766 17. Lateral view of a somewhat distorted internal cast.
Merchantville clay-marl; Lenola, (163).
Turbinella intermedia n. sp.,
TURBINELLA PARVA Gabb,p. 770
23-24. Two lateral views of an internal cast.
Navesink marl, near Crawfords Corner, (1261).

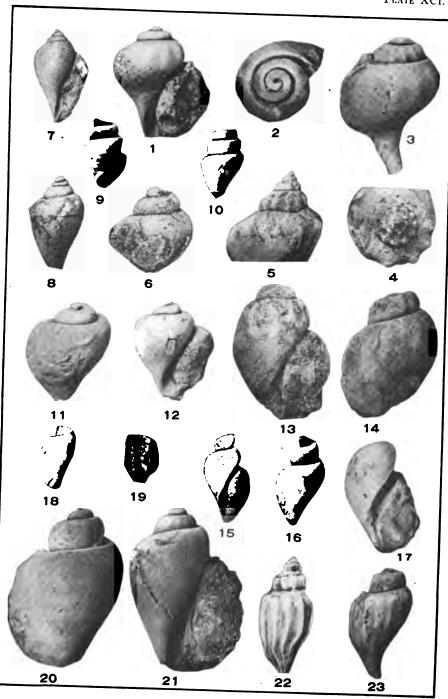


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13* PAL

EXPLANATION OF PLATE XCI.

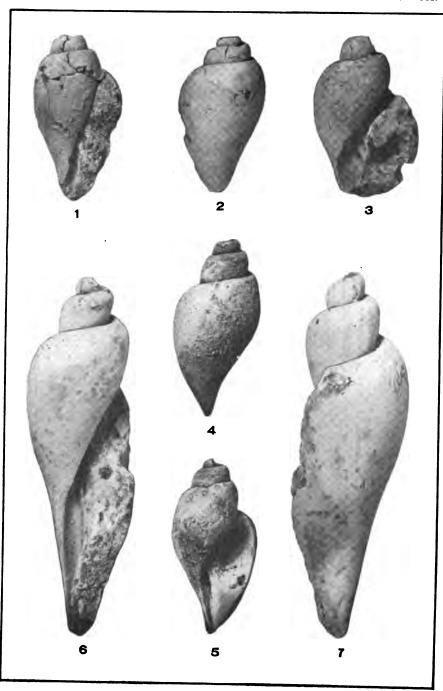
Turbinella alabamensis (Gabb),
CARICELLA PLICATA Whitfield,
VASUM CONOIDES Whitfield,
Turbinella subconica Gabb,
VOLUTODERMA BIPLICATA (Gabb),
VOLUTODERMA WOOLMANI Whitfield,
VOLUTODERMA OVATA Whitfield,
VOLUTODERMA JAMESBURGENSIS II. sp.,



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EXPLANATION OF PLATE XCII.

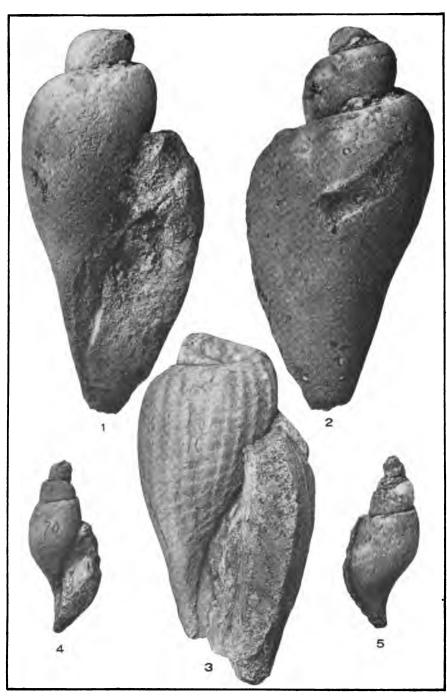
Volutoderma abbotti (Gabb),p.	e specimen.
1-2. Two lateral views of the type specimen.	
Horizon and locality uncertain.	
VOLUTODERMA INTERMEDIA Whitfield,p.	779
3. Lateral view of the type specimen.	
Manasquan marl; near Vincentown.	
Piestochilus bella Gabb ?,p.	.p. 782
4-5. Two lateral views of an internal cast, partially restored.	
Wenonah sand; Crawfords Corner, (126°).	
Volutomorpha conradi (Gabb),p.	780
6-7. Two lateral views of the type specimen.	
Navesink marl: Crosswicks Creek	



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EXPLANATION OF PLATE XCIII.

Volutomorpha conradi (Gabb),p. 780
1-2. Two lateral views of a large internal cast.
Navesink marl; near Holmdel.
3. Lateral view of a cast retaining some of the surface mark-
ings.
Navesink marl.
Volutomorpha sp.,
4-5. Two lateral views of an internal cast.
Wenonah sand; near Crawfords Corner, (1263).



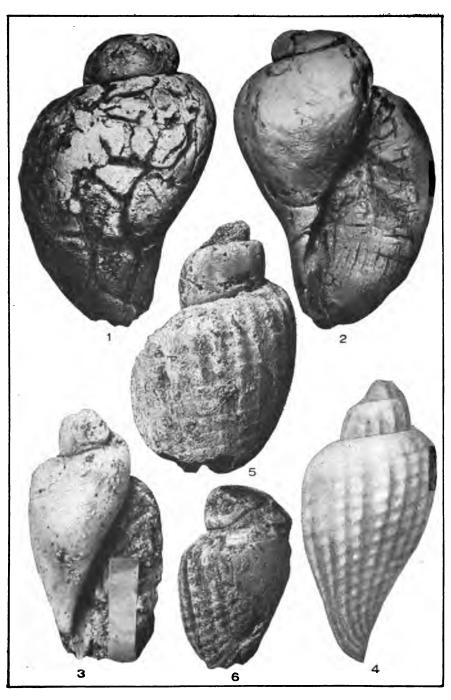
GASTROPODA.

EXPLANATION OF PLATE XCIV.

OLUTOMORPHA CONRADI (Gabb),p. 780
1-2. Two lateral views of a very broad internal cast.
Cliffwood clay; Cliffwood Point, (105).
3. Lateral view of one of the type specimens of V. gabbi
Whift.
Navesink marl; Mullica Hill.
4. Lateral view of one of the type specimens of V. gabbi. (After
Whitfield.)
Navesink marl, Holmdel.
5. Lateral view of an internal cast preserving some of the sur-
face markings.
Navesink marl; Mullica Hill (169).

6. Lateral view of a small internal cast illustrated by Whitfield as V. gabbi.

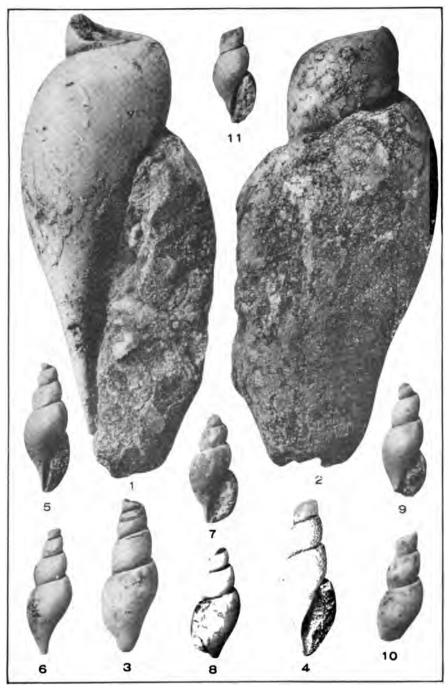
Navesink marl; Marlboro.



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EXPLANATION OF PLATE XCV.

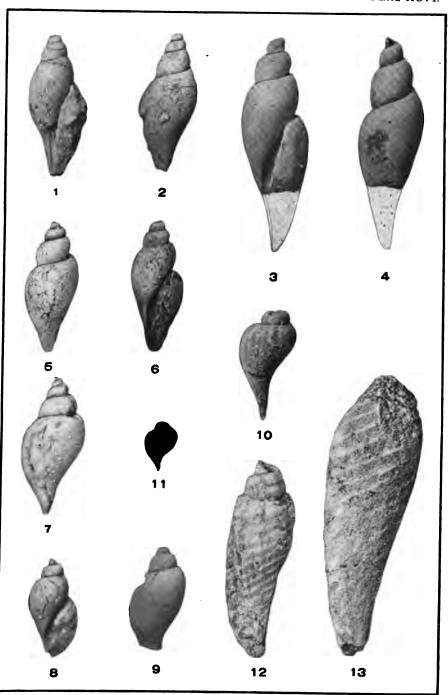
VOLUTOMORPHA PONDEROSA Whitfield,
Piestochilus sp.
3-4. Two lateral views of an internal cast.
Navesink marl; Mullica Hill, (169).
Odontofusus mucronata Gabb,p. 764
5-6. Two lateral views of an internal cast.
Navesink marl; Middleton, (113).
7-8. Two lateral views of the type specimen of O. rostellaroides
Whitf.
Navesink marl; Holmdel.
9-10. Two lateral views of an internal cast.
11. Lateral view of an internal cast.
Navesink marl; near Crawfords Corner, (1267).



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EXPLANATION OF PLATE XCVI.

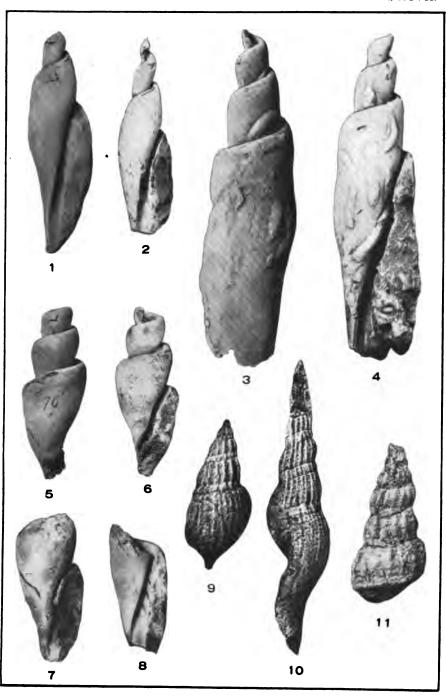
PIESTOCHILUS BELLA (Gabb),
3-4. Two lateral views of a large internal cast, probably the type
of the species.
Navesink marl; Monmouth County,
ivavestik mari, ktonmouth County,
Piestochilus kanei Gabb,p. 784
5-6. Two lateral views of an internal cast.
Wenonah sand; near Crawfords Corner, (1263).
 Lateral view of an internal cast doubtfully referred to this species.
Cliffwood clay; Cliffwood Point, (185).
The state of the s
8-9. Two lateral views of the type of the species.
Navesink marl; Crosswicks Creek.
Volutomorpha? sp.
10-11. Lateral views of two internal casts.
Wenonah sand; near Crawfords Corner, (1268).
ROSTELLITES TEXTURATUS Whitfield,p. 785
12. Lateral view of an imperfect internal cast,
Merchantzille clay-marl; Lenola, (163).
13. Lateral view of an internal cast illustrated by Whitfield.
Navesink marl; Holmdel.



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EXPLANATION OF PLATE XCVII.

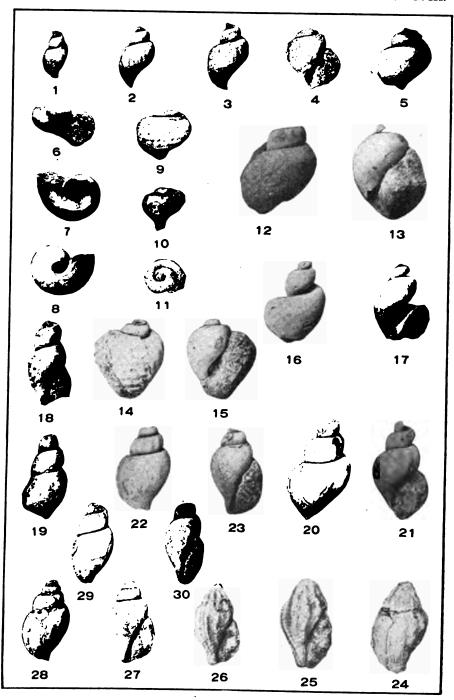
Rostellites nasutus Gabbp. 1-2. Two lateral views of the type specimens. Navesink marl; Monmouth County.	78 6
Rostellites angulatus Whitfield,p. 3-4. Two lateral views of the type specimen. Navesink marl.	787
Rostellites biconicus Whitfield,p. 5-6. Two lateral views of an internal cast. 7-8. Lateral views of two imperfect casts. Manasquan marl; Farmingdalc.	788
Turricula Leda Whitfield,p. 9. View of the type specimen. Navesink marl; Freehold.	790
Turricula reileyi Whitfield,p. 10. View of the type specimen. Naucsink marl; Freehold.	7 91
Turricula scalariformis Whitfield,p. 11. View of the type specimen. Navesinh mark: Holmdel	789



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EXPLANATION OF PLATE XCVIII.

CANCELLARIA SUBALTA Conrad,p. I. Lateral view of an internal cast. Woodbury clay; Lorillard, (102).	792
Cancellaria smocki n. sp.,p. 2-3. Lateral views of two internal casts. Woodbury clay; Lorillard, (102).	793
Turbinopsis? curta Whitfield,p. 4-5. Two lateral views of an internal cast. Navesink marl; near Walnford, (149).	798
Turbinopsis depressa Gabb,	794
Turbinopsis angulata Whitfield,p. 12-13. Two lateral views of the type specimen. Navesink marl; Crosswicks.	796
Morea naticella Gabb,p. 14-15. Two lateral views of an internal cast, retaining some of the markings of the exterior. Merchantville clay-marl; Lenola, (163).	800
MOREA PLICATA (Whitfield),p. 16-17. Two lateral views of the type specimen. Navesink marl; Crosswicks.	801
PLEUROTOMA FARMINGDALENSIS Whitfield,p. 18-19. Two lateral views of the type specimen. Manasquan marl; Farmingdale.	802
CITHARA CROSSWICKENSIS Whitfield,p. 20-21. Two lateral views of the type specimen. Navesink marl; Crosswicks Creek.	803
CITHARA MULLICAENSIS Whitfield,p. 22-25. Two lateral views each of two specimens, one an internal cast, and one partially preserving the shell. Navesink marl; Mullica Hill, (169).	804
26. Lateral view of one of the type specimens partially preserving the shell.	
27-28. Two lateral views of another of the type specimens. Navesink marl; Freehold.	
CITHARA sp. 29–30. Two lateral views of an internal cast. Navesink marl; near Crawfords Corner, (126).	

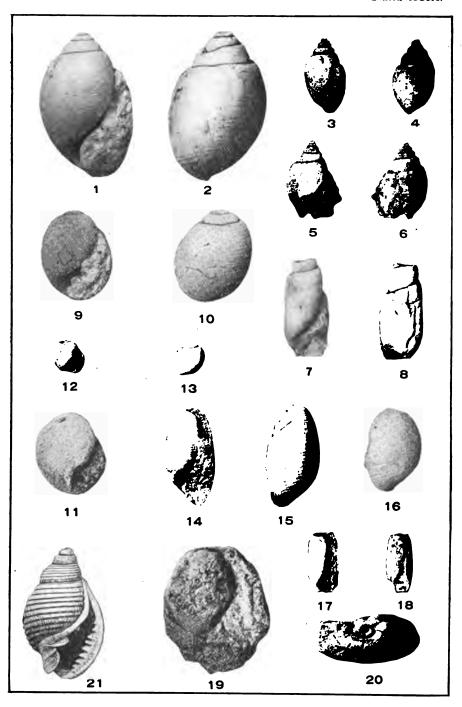


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14* PAL

EXPLANATION OF PLATE XCIX.

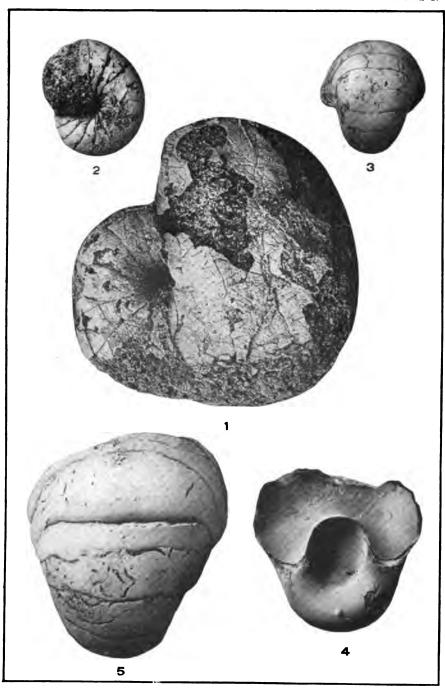
ACTAEON CRETACEA Gabb,p. 8 1-2. Two lateral views of a very large internal cast. Navesink marl; Atlantic Highlands, (108). 3-6. Two lateral views each of two internal casts. Wenonah sand; near Crawfords Corner, (126*).	3 05
ACTAEON GABBANA Whitfield,	307
AVELLANA BULLATA (Morton),	308
CINULIA NATICOIDES (Gabb),p. 8 12-13. Two lateral views of an internal cast. Navesink marl; near Freehold, (133).	Віі
HAMINEA MORTONI (Forbes),	812
CYLICHNA RECTA Gabb,p. 8 17. Lateral view of an internal cast, (x2). Navcsink marl; near Freehold, (133). 18. Lateral view of an internal cast, (x2). Wenonah sand; near Crawfords Corner, (1263).	814
Bulla macrostoma Gabb,p. 8 19-20. Lateral and vertical views of a crushed internal cast. Red Bank sand; near Middletown, (112).	812
AVELLANA COSTATA (Johnson),	810



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EXPLANATION OF PLATE C.

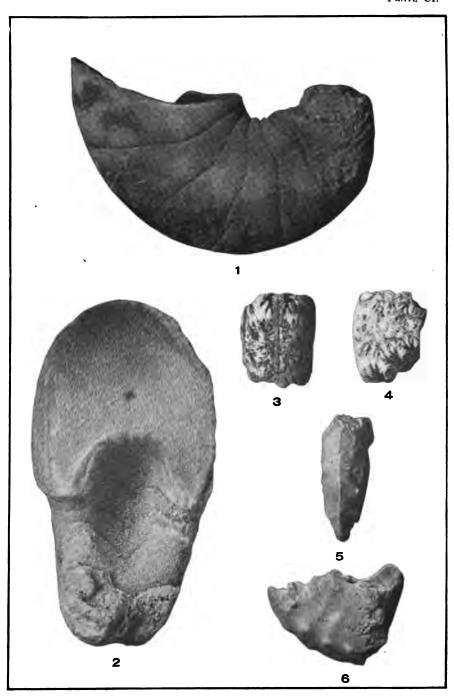
Nautilus	DEKAYI Morton,p. 81
I.	Lateral view of an incomplete internal cast.
	Red Bank sand; Shrewsbury River, (119).
2-3.	Lateral and dorsal views of a small internal cast, illustrated by Whitfield.
4.	Ventral view of a fragmentary internal cast, illustrated by Whitfield.
	Navesink marl; Marlboro.
5.	Dorsal view of a fragmentary internal cast illustrated by Whitfield.
	Hornerstown marl; Cook's pits near Tinton Falls.



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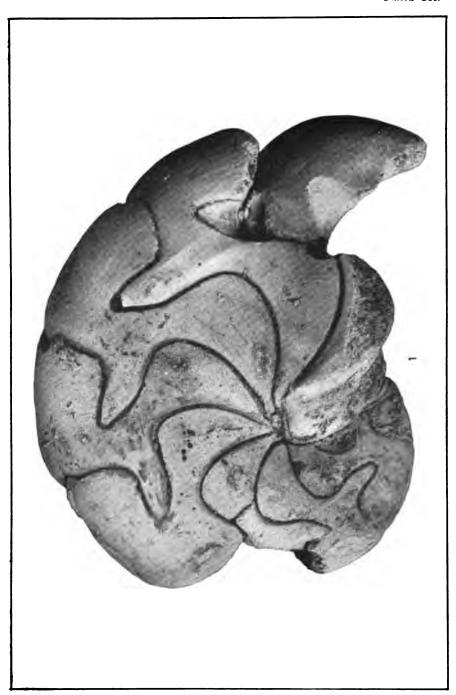
EXPLANATION OF PLATE CI.

Nautilus bryani Gabb,p.	818
1-2. Lateral and ventral views of the type specimen.	
. Vincentown limesand; Vincentown.	
PACHYDISCUS COMPLEXUS (Hall and Meek)?p.	819
3-4. Dorsal and lateral views of a fragment of an internal cast	
illustrated by Whitfield.	
Locality unknown.	
BARROISICERAS DENTATO-CARINATUS (Roemer),p.	836
5-6. Dorsal and lateral views of a fragmentary internal cast illus-	
trated by Whitfield.	
Locality unknown,	



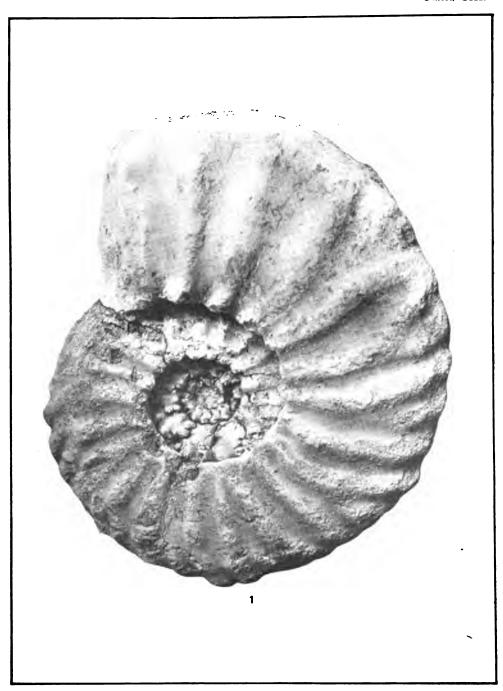
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EXPLANATION OF PLATE CII.



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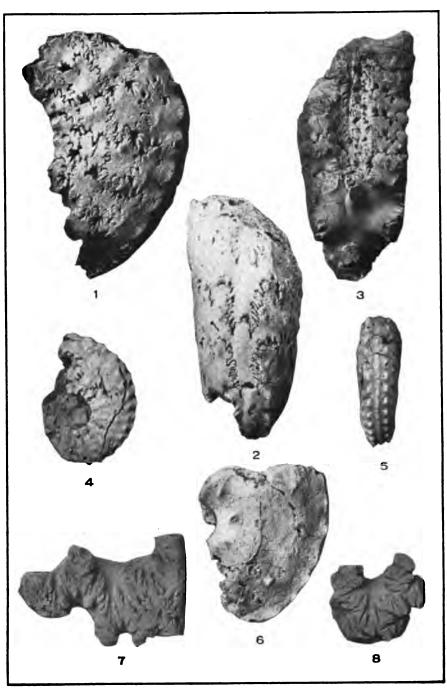
EXPLANATION OF PLATE CIII.



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EXPLANATION OF PLATE CIV.

Mortoniceras delawarensis (Morton),	
1-3. Lateral, ventral and dorsal views of an incomplete intern	al
cast.	
Merchantville clay-marl; Lenola, (163).	
4-5. Lateral and dorsal views of the type specimen.	
Merchantville clay-marl.	
PLACENTICERAS PLACENTA (DeKay),	р. 830
6. Lateral view of an incomplete internal cast of an immature	
specimen.	
Merchantville clay-marl; Lenola, (163).	
Placenticeras telifer (Morton),	р. 832
7-8. Views of two fragments used by Morton in his descrip)-
tion of the species.	
Locality not known	



CEPHALOPODA.

EXPLANATION OF PLATE CV.



CEPHALOPODA.

EXFLAMATION OF FLATE INT

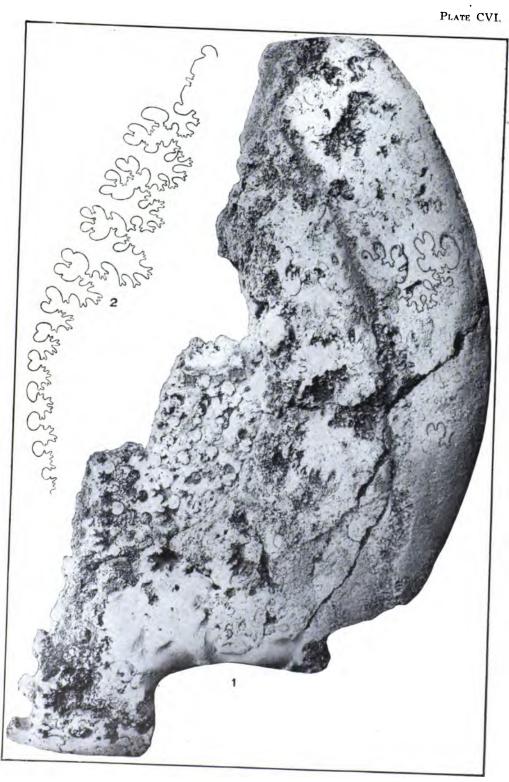
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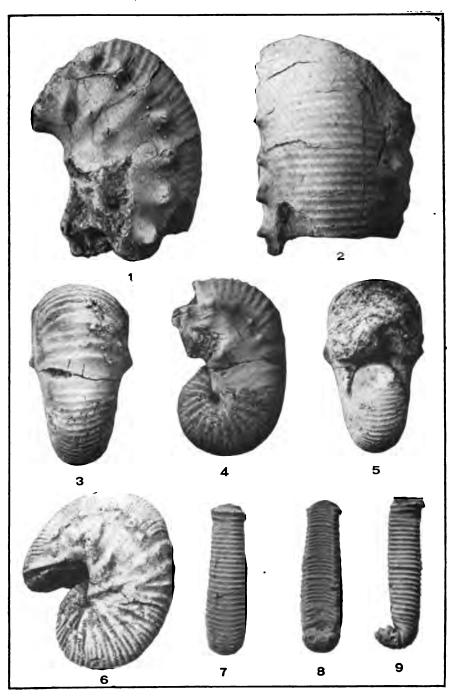
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EXPLANATION OF PLATE CVII.

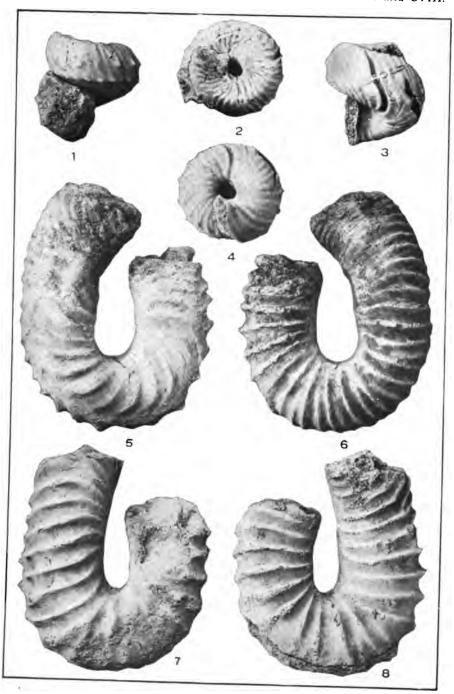
SCAPHITES NODOSUS Owen ?,p. 1-2. Lateral and dorsal views of an imperfect specimen illustrated by Whitfield.	824
Locality not known.	
SCAPHITES HIPPOCREPIS (DeKay),p. 3-5. Three views of an internal cast. 6. Lateral view of another internal cast.	826
Merchantville clay-marl; Lenola, (163).	
PTYCHOCERAS (SOLENOCERAS) ANNULIFER Morton,	
7-9. Three views of the type specimen, (x2).	
Merchantville clay-marl, Delaware and Chesapeake	
Canal.	



CEPHALOPODA.

EXPLANATION OF PLATE CVIII.

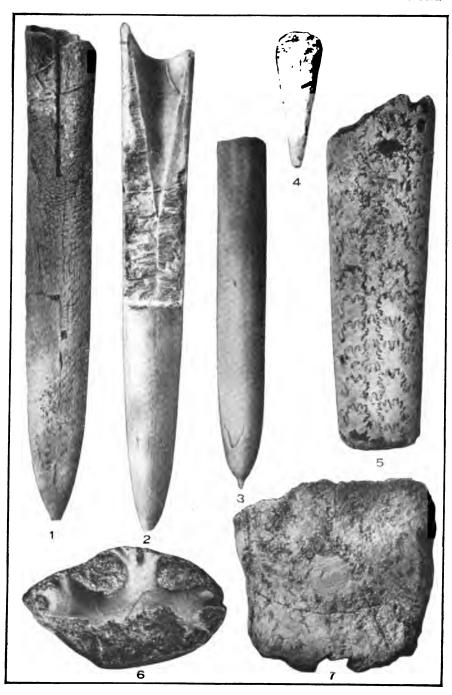
Turrilites pauper Whitfield,p. 834
1-4. Four views of the type specimen.
Navesink marl; Navesink Hills.
Heteroceras conradi (Morton),p. 833 5-8. Two views each of two specimens.
Navesink marl: Atlantic Highlands (108).



CEPHALOPODA.

EXPLANATION OF PLATE CIX.

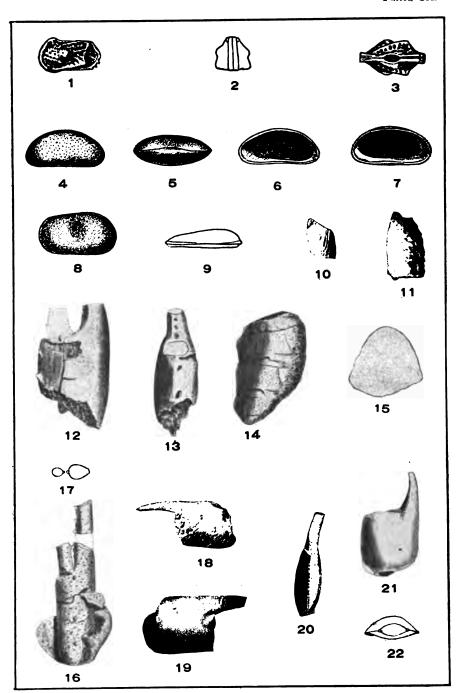
BELEMNITELLA AMERICANA (Morton),p.	839
1. Ventral view of a large individual showing the slit.	
Another view of the same individual with a section removed to show the alveolar cavity.	
View of a smaller individual preserving the mucronate ex- tremity.	
Navesink marl; Holmdel.	
4. View of a cast of the alveolar cavity.	
Navesink marl; Atlantic Highlands, (108).	
BACULITES OVATUS Say,p.	821
5. Lateral view of an internal cast.	
Navesink marl; Atlantic Highlands, (108).	
BACULITES ASPER Morton ?p. 6-7. Two views of a specimen identified and illustrated by Whit-	823
field.	
Navcsink marl; Holmdel.	
	- 1



CEPHALOPODA.

EXPLANATION OF PLATE CX.

CYTHEREIS BASSLERI Ulrich,p. 1-3. Left lateral, anterior and ventral views of a complete carapace from the Eocene of Maryland. (After Ulrich.)	843
BYTHOCYPRIS PARILIS Ulrich,p. 4-5. Right lateral, and ventral views of a complete carapace from the Eocene of Maryland. (After Ulrich.) 6. Inside view of right valve. (After Ulrich.) 7. Inside view of left valve. (After Ulrich.)	844
CYTHERELLA SUBMARGINATA Ulrich,p. 8. A left valve showing slight mesial depression and marginal rim, from the Eocene of Maryland. (After Ulrich.) 9. Ventral view of same. (After Ulrich.)	845
Scalpellum conradi Gabb,p. 10. View of a scutal plate. Vincentown limesand; near Hurstville, (170). Undetermined crustacean, 11. Lateral view of one of the leg joints. Merchantville clay-marl; Lenola, (163).	845
HOPLOPARIA GABBI Pilsbry,p. 12. Left propodite, outer face; the dactylopodite supplied from another specimen. 13. Left propodite, profile view. 14. Portions of four abdominal segments. 15. Section of anterior end of same. (All after Pilsbry.) Merchantville clay-marl; Lenola, (163).	846
HOPLOPARIA GLADIATOR Pilsbry,p. 16. Propodite with dactylopodite. 17. Outline of the broken fingers of the same. (Ater Pilsbry.) Merchantville clay-marl; Lenola, (163).	848
CALLIANASSA CONRADI Pilsbry,	851



CRUSTACEA.

